Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	15	707/201.ccls. and ((databases same ((personal adj information) or (information adj for adj person))) and (user))	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/17 10:53
L2	15	707/201.ccls. and ((databases same ((personal adj information) or (information adj for adj person))) and (user))	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/17 10:53
S1	2042	databases same personal same information	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:13
S2	42	(personal adj databases) same information	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 10:28
S3	445	databases same ((personal adj information) or (information adj for adj person))	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 10:31
S4 .	080000/61	(databases same ((personal adj information) or (information adj for adj person))) and (rule\$ same per\$1determine\$)	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 10:30
S5	412	(databases same ((personal adj information) or (information adj for adj person))) and (user)	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/14 11:34
S6	192	(databases same ((personal adj information) or (information adj for adj person))) same (user)	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 11:04
S7	1	"6404884".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 11:25
S8	2	("5873108" or "5920858").pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/14 11:32
S9	10119	"PCMCIA"	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 11:55
S10	207	"PCMCIA" same network same transmit\$ same receiv\$	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 12:08
S11	53	PDA same network same internet same databases	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 13:05
S12	34	PDA same synchronization same databases	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 13:05

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S13	0	PDA same synchronization same databases same detection	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 13:05
S14	6	synchronization same databases same detection	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/13 13:05
S15	3	("5873108" or "5966714").pn. or "20030018700"	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/13 12:19
S16	412	(databases same ((personal adj information) or (information adj for adj person))) and (user)	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/14 11:34
S17	11	707/2.ccls. and ((databases same ((personal adj information) or (information adj for adj person))) and (user))	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/14 11:35
S18	18	707/3.ccls. and ((databases same ((personal adj information) or (information adj for adj person))) and (user))	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/14 11:35
S19	1	707/6.ccls. and ((databases same ((personal adj information) or (information adj for adj person))) and (user))	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/14 11:35
S20	6	707/9.ccls. and ((databases same ((personal adj information) or (information adj for adj person))) and (user))	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/14 11:35
S21	36	707/10.ccls. and ((databases same ((personal adj information) or (information adj for adj person))) and (user))	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/17 10:53
S23	1	"20020188609"	US-PGPUB; USPAT; JPO	OR	OFF	2004/03/15 13:22
S24	1	"20020188609"	US-PGPUB; USPAT; JPO	OR	OFF	2004/11/12 14:33
S25	0	"200201188609"	US-PGPUB; USPAT; JPO	OR	OFF	2004/11/13 15:59
S26	2	"20020188609"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/13 15:59

S27	14126	database\$2 same personal same information	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:13
S28	7793	database\$2 same personal same information and @ad < "20011204"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:14
S29	6246	database\$2 same personal same information and @ad < "20010608"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:14
S30	1331	databases same personal same information and @ad < "20010608"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:15
S31	467	(databases same personal same information) and (stor\$6 with (event\$1 or siuation\$1 or altern\$6 or status)) and @ad < "20010608"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:19
S32	219	(databases same personal same information) and (stor\$6 with (event\$1 or siuation\$1 or altern\$6 or status)) and @ad < "20010608" and rule\$2	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:22
S33	212	(databases same personal same information) and (stor\$6 with (event\$1 or siuation\$1 or altern\$6 or status)) and @ad < "20010608" and rule\$2 and network	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:23
S34	211	(databases same personal same information) and (stor\$6 with (event\$1 or siuation\$1 or altern\$6 or status)) and @ad < "20010608" and rule\$2 and network and (time or calend\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:23
S35	74	(databases same personal same information) and (stor\$6 with (event\$1 or siuation\$1 or altern\$6 or status)) and @ad < "20010608" and rule\$2 and network and (calend\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:39
S36	0	khanh.ap. and pham.ap.	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:35
S37	16756	personal adj information	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:40
S38	1149	(personal adj (information or data)) adj management ·	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:40
S39	1	(personal adj (information or data)) adj management adj databases	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:41

S40	35	((personal adj (information or data)) adj management with databases)	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 10:41
S41	18	((personal adj (information or data)) adj management with databases) and @ad < "20010608"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 11:00
S42	29	((personal adj (information or data)) adj management same databases) and @ad < "20010608"	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/17 10:35
S43	2	"20030069874" or "6202060".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 14:01
S44	3	"20030069874" or "6202060".pn. or "20020157014"	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 15:24
S45	4	"20030069874" or "6202060".pn. or "20020157014" or "5966714".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 16:04
S46	1	"6577720".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2005/07/18 16:04
S47	1	"20020188609"	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/13 12:58
S48	1	"20030144998"	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/13 12:59
S49	21	((personal adj (information or data)) adj management same databases) and @ad < "20010608" and (synchron\$7 or remed\$5 or rectif\$5)	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/17 10:36
S50	2	((personal adj (information or data)) adj management same databases) and @ad < "20010608" and (synchron\$7 or remed\$5 or rectif\$5) and (rule) and detect\$4	US-PGPUB; USPAT; JPO	OR	OFF	2006/02/17 10:36

2/17/06 10:53:31 AM C:\Documents and Settings\KLu\My Documents\EAST\Workspaces\10000088.wsp Page 4

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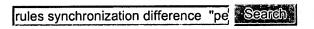
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1. Personal privacy: an endangered species in the information age?

Hedberg, S.;

Parallel & Distributed Technology: Systems & Applications, IEEE [see also IEE

Volume 4, Issue 4, Winter 1996 Page(s):4 - 7 Digital Object Identifier 10.1109/88.544430

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Personal privacy: an endangered species in the informati

Hedberg, S.

This paper appears in: Parallel & Distributed Technology: Systems & Applications, II

Concurrency]

Publication Date: Winter 1996

Volume: 4, Issue: 4 On page(s): 4 - 7 ISSN: 1063-6552

INSPEC Accession Number:5442081 Digital Object Identifier: 10.1109/88.544430 Posted online: 2002-08-06 20:37:08.0

Abstract

In mid-September (1996) there was a flurry of angry email messages flying around the In news that personal information about you could be purchased from the company by just a credit card. Many were outraged at the loss of their privacy, and Lexis-Nexis was flooded netizens demanding removal of their personal data from the database. P-Trak, the compa information database product, was introduced last June by Lexis-Nexis. This 300 million public information culled from credit bureau records contains each person's name, maide and two most recent previous addresses, month and year of birth, and phone number. W came out, it included Social Security numbers as well, but that feature was pulled less that product's initial release. However, if you have a Social Security number, you can still sear a fee, of course) for related data. Compared to many other databases, such as those cor medical histories, P-Trak is relatively tame. Nonetheless, the recent spotlight on Lexis-Ne much personal information is unknowingly gathered and used. Several journalists reporte information in P-Trak, and most found erroneous information. This raises another issue: \(\circ\) personal information is floating around in cyberspace and what effect might that have?

Index Terms Inspec

Controlled Indexing

Internet data privacy information services security of data

Non-controlled Indexing

Internet Lexis-Nexis P-Trak Social Security numbers credit bureau records email messages erroneous information inaccurate personal information information personal information database product personal privacy public information

Author Keywords Not Available

References

- 1 Privacy Forum Digest, Sept.22, 1996, Vol. 5, No. 18, URL http://www.vortex.com/priv-[Buy Via Ask*IEEE]
- R. Suro, "New Airport Bomb Plan Considered: Computer Profiles, High-Tech Detecto Washington Post, Aug.31, 1996, p. A01. [Buy Via Ask*IEEE]
- 3 "The Cook Report on Internet-NREN; NII: The Dark Side in Washington State," July 1 http://pobox.com/cook/washington.html.
- "Virtual Privacy," The Economist, Feb.10, 1966, pp. 16-17.

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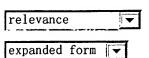
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Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

3 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 ACM Transactions on Programming Languages and Systems (TOPLAS),

Volume 8 Issue 4 Publisher: ACM Press

Full text available: pdf(6.32 MB)

Additional Information: full citation, abstract, references, citings, index

terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Publisher: ACM Press

Full text available: pdf(613.63 KB)

Additional Information: full citation, references, citings, index terms (2.78 KB)

Level II technical support in a distributed computing environment

Tim Leehane September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User services

Publisher: ACM Press

Full text available: pdf(5.73 MB) Additional Information: full citation, references, index terms

Special issue: Game-playing programs: theory and practice

M. A. Bramer April 1982 ACM SIGART Bulletin, Issue 80

Publisher: ACM Press

Full text available: pdf(9.23 MB) Additional Information: full citation, abstract

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

7 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH

Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with oneof-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

The Logical Record Access Approach to Database Design

Toby J. Teorey, James P. Fry

June 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(2.81 MB) Additional Information: full citation, references, citings, index terms

PicoDBMS: Scaling down database techniques for the smartcard
Philippe Pucheral, Luc Bouganim, Patrick Valduriez, Christophe Bobineau
September 2001 The VLDB Journal — The International Journal on Very Large Data
Bases, Volume 10 Issue 2-3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(259.03 KB) Additional Information: full citation, abstract, citings, index terms

Smartcards are the most secure portable computing device today. They have been used successfully in applications involving money, and proprietary and personal data (such as banking, healthcare, insurance, etc.). As smartcards get more powerful (with 32-bit CPU and more than 1 MB of stable memory in the next versions) and become multiapplication, the need for database management arises. However, smartcards have severe hardware limitations (very slow write, very little RAM, constrained stable mem ...

Keywords: Atomicity, Durability, Execution model, PicoDBMS, Query optimization, Smartcard applications, Storage model

10 Talking to UNIX in English: an overview of UC

Robert Wilensky, Yigal Arens, David Chin

June 1984 Communications of the ACM, Volume 27 Issue 6

Publisher: ACM Press

Full text available: pdf(2.03 MB)

Additional Information: full citation, abstract, references, citings, index terms

UC is a natural language help facility which advises users in using the UNIX operating system. Users can query UC about how to do things, command names and formats, online definitions of UNIX or general operating systems terminology, and debugging problems in using commands. UC is comprised of the following components: a language analyzer and generator, a context and memory model, an experimental common-sense planner, highly extensible knowledge bases on both the UNIX domain and the ...

Keywords: ellipsis, goal analysis, memory models, natural dialogue, reference disambiguation

11 Pen computing: a technology overview and a vision

André Meyer

July 1995 ACM SIGCHI Bulletin, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(5.14 MB) . Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

12 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(7.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. Dialogue independence is th ...

13 <u>Distributed operating systems</u>

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(5.49 MB) terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

14 External memory algorithms and data structures: dealing with massive data

Jeffrey Scott Vitter

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(828.46 KB) terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

15 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 ACM SIGART Bulletin, Issue 93

Publisher: ACM Press

Full text available: pdf(5.13 MB) Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

16 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam

September 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

17 Introducing Ada 9X

John Barnes

November 1993 ACM SIGAda Ada Letters, Volume XIII Issue 6

Publisher: ACM Press

Full text available: pdf(4.39 MB) Additional Information: full citation, citings, index terms

18 Interaction design at the Utrecht School of the Arts

Lon Barfield, Willie van Burgsteden, Ruud Lanfermeijer, Bert Mulder, Jurriënne Ossewold, Dick Rijken, Philippe Wegner

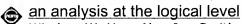
July 1994 ACM SIGCHI Bulletin, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(5.38 MB) Additional Information: full citation, abstract, citings, index terms

The "Hogeschool voor de Kunsten Utrecht" (Utrecht School of the Arts, Utrecht, The Netherlands) offers a four-year curriculum in interaction design (roughly equivalent to an MA) and a one year master of arts degree in interactive multimedia. The material here presents our approach to interaction design as a discipline and the curriculum that embodies this approach. It features a collection of thoughts and snapshots-- we regard it as work in progress. Interaction design is a new field. It is grow ...

19 I/O reference behavior of production database workloads and the TPC benchmarks—



Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

March 2001 ACM Transactions on Database Systems (TODS), Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(5.42 MB)

Additional Information: full citation, abstract, references, citings, index terms

As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amoungs of data. The key to achieving good I/O performance is to thoroughly understand its characteristics. In this article we present a comprehensive analysis of the logical I/O reference behavior of the peak productiondatabase workloads from ten of the world's largest corporatio ...

Keywords: I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

20 Special issue on prototypes of deductive database systems: The glue-nail deductive database system: design, implementation, and evaluation

Marcia A. Derr, Shinichi Morishita, Geoffrey Phipps

April 1994 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 3 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references, citings

We describe the design and implementation of the Glue-Nail deductive database system. Nail is a purely declarative query language; Glue is a procedural language used for non-query activities. The two languages combined are sufficient to write a complete application. Nail and Glue code are both compiled into the target language IGlue. The Nail

Results (page 1): +personal +information +database +rules +clock +se... Page 6 of 6

compiler uses variants of the magic sets algorithm and supports well-founded models. The Glue compiler's static optimizer uses peephole techniques and data ...

Keywords: language, performance, query optimization

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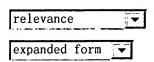
Terms used

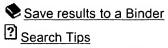
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Relevance scale

21 Special issue: Al in engineering



D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB)

Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

22 HAC: hybrid adaptive caching for distributed storage systems



Miguel Castro, Atul Adya, Barbara Liskov, Andrew C. Meyers

October 1997 ACM SIGOPS Operating Systems Review, Proceedings of the sixteenth

ACM symposium on Operating systems principles SOSP '97, Volume 31 Issue

Publisher: ACM Press

Full text available: pdf(2.21 MB)

MB) Additional Information: full citation, references, citings, index terms

23 Adaptive, fine-grained sharing in a client-server OODBMS: a callback-based





Markos Zaharioudakis, Michael J. Carey, Michael J. Franklin

December 1997 ACM Transactions on Database Systems (TODS), Volume 22 Issue 4

Publisher: ACM Press

Full text available: 🔁 pdf(441.80 KB)

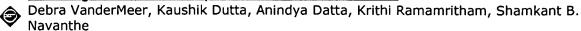
Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

For reasons of simplicity and communication efficiency, a number of existing object-oriented database management systems are based on page server architectures; data pages are their minimum unit of transfer and client caching. Despite their efficiency, page servers are often criticized as being too retrictive when it comes to concurrency, as existing systems use pages as the minimum locking unit as well. In this paper we show how to support object-level locking in a page-server context. Sev ...

Keywords: cache coherency, cache consistency, client-server databased, fine-grained

sharing, object-oriented databases, performance analysis

24 Enabling scalable online personalization on the Web



October 2000 Proceedings of the 2nd ACM conference on Electronic commerce

Publisher: ACM Press

Full text available: pdf(491.69 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic profiling, e-commerce, online personalization, user behavior

25 Specification and implementation of exceptions in workflow management systems

Fabio Casati, Stefano Ceri, Stefano Paraboschi, Guiseppe Pozzi
September 1999 ACM Transactions on Database Systems (TODS), Volume 24 Issue 3
Publisher: ACM Press

Full text available: pdf(250.40 KB)

Additional Information: full citation, abstract, references, citings, index terms

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside the normal control flow. In this paper we concentrate upon anomalous situations that, although unusual, are part of the semantics of workflow applications, and should be specified and monitored coherently; in most real-life applica ...

Keywords: active rules, asynchronous events, exceptions, workflow management systems

26 Practical uses of synchronized clocks in distributed systems

Barbara Liskov

July 1991 Proceedings of the tenth annual ACM symposium on Principles of distributed computing PODC '91

Publisher: ACM Press

Full text available: pdf(997.91 KB) Additional Information: full citation, references, citings, index terms

27 EXACT: an extensible approach to active object-oriented databases

Oscar Díaz, Arturo Jaime

November 1997 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 6 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(149.60 KB) Additional Information: full citation, abstract, citings, index terms

Active database management systems (DBMSs) are a fast-growing area of research, mainly due to the large number of applications which can benefit from this active dimension. These applications are far from being homogeneous, requiring different kinds of functionalities. However, most of the active DBMSs described in the literature only provide a *fixed*, *hard-wired* execution model to support the active dimension. In object-oriented DBMSs, event-condition-action rules have been propo sed for ...

Keywords: Active DBMS, Extensibility, Metaclasses, Object-Oriented DBMS

An architecture to support scalable online personalization on the Web Anindya Datta, Kaushik Dutta, Debra VanderMeer, Krithi Ramamritham, Shamkant B.

Navathe

August 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(167.25 KB) Additional Information: full citation, abstract, citings, index terms

Online personalization is of great interest to e-companies. Virtually all personalization technologies are based on the idea of storing as much historical customer session data as possible, and then querying the data store as customers navigate through a web site. The holy grail of online personalization is an environment where fine-grained, detailed historical session data can be queried based on current online navigation patterns for use in formulating real-time responses. Unfortunately, as mo ...

Keywords: Behavior-based personalization, Dynamic lookahead profile, Profile caching, Scalable online personalization, Web site and interaction model

29 Design and implementation of the glue-nail database system

Marcia A. Derr, Shinichi Morishita, Geoffrey Phipps

June 1993 ACM SIGMOD Record, Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(1.15 MB)

Additional Information: full citation, abstract, references, citings, index terms

We describe the design and implementation of the Glue-Nail database system. The Nail language is a purely declarative query language; Glue is a procedural language used for non-query activities. The two languages combined are sufficient to write a complete application. Nail and Glue code both compile into the target language IGlue. The Nail compiler uses variants of the magic sets algorithm, and supports well-founded models. Static optimization is performed by the Glue compiler using techni ...

30 Path sharing and predicate evaluation for high-performance XML filtering

Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer
December 2003 ACM Transactions on Database Systems (TODS), Volume 28 Issue 4

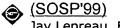
Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citings, index terms

XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite State Machines (FSMs) can provide the basis for highly scalable structure-oriented XML filtering systems. The XFilter system [Altinel and Franklin 2000] was the first published FSM-based XML filtering approach. XFilter used a separate FSM per pa ...

Keywords: Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

31 Session summaries from the 17th symposium on operating systems principle



Jay Lepreau, Eric Eide

April 2000 ACM SIGOPS Operating Systems Review, Volume 34 Issue 2

Publisher: ACM Press

Additional Information: full citation, index terms Full text available: pdf(3.15 MB)

32 The temporal query language TQuel



Richard Snodgrass

June 1987 ACM Transactions on Database Systems (TODS), Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(4.12 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

Recently, attention has been focused on temporal databases, representing an enterprise over time. We have developed a new language, Tquel, to query a temporal database. TQuel was designed to be a minimal extension, both syntactically and semantically, of Quel, the query language in the Ingres relational database management system. This paper discusses the language informally, then provides a tuple relational calculus semantics for the TQuel statements that ...

33 PSoup: a system for streaming queries over streaming data

Sirish Chandrasekaran, Michael J. Franklin

August 2003 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 12 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(267.99 KB) Additional Information: full citation, abstract, index terms

Abstract. Recent work on querying data streams has focused on systems where newly arriving data is processed and continuously streamed to the user in real time. In many emerging applications, however, ad hoc queries and/or intermittent connectivity also require the processing of data that arrives prior to query submission or during a period of disconnection. For such applications, we have developed PSoup, a system that combines the processing of ad hoc and continuous queries by treating data and ...

Keywords: Disconnected operation, Query-data duality, Stream guery processing

34 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data



consistency between database and file systems

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, index terms

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

³⁵ A survey of rollback-recovery protocols in message-passing systems



E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson September 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 3



Publisher: ACM Press

Full text available: pdf(549.68 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

This survey covers rollback-recovery techniques that do not require special language constructs. In the first part of the survey we classify rollback-recovery protocols into checkpoint-based and log-based. Checkpoint-based protocols rely solely on checkpointing for system state restoration. Checkpointing can be coordinated, uncoordinated, or communication-induced. Log-based protocols combine checkpointing with logging of nondeterministic events, encoded in tuples call ...

Keywords: message logging, rollback-recovery

36 Optimizing object queries using an effective calculus

Leonidas Fegaras, David Maier

December 2000 ACM Transactions on Database Systems (TODS), Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(641.65 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Object-oriented databases (OODBs) provide powerful data abstractions and modeling facilities, but they generally lack a suitable framework for query processing and optimization. The development of an effective query optimizer is one of the key factors for OODB systems to successfully compete with relational systems, as well as to meet the performance requirements of many nontraditional applications. We propose an effective framework with a solid theoretical basis for optimizing OODB query I ...

Keywords: nested relations, object-oriented databases, query decorrelation, query optimization

37 Mae---a system model and environment for managing architectural evolution



Publisher: ACM Press

Full text available: pdf(2.39 MB) Additional Information: full citation, abstract, references, index terms

As with any other artifact produced as part of the software life cycle, software architectures evolve and this evolution must be managed. One approach to doing so would be to apply any of a host of existing configuration management systems, which have long been used successfully at the level of source code. Unfortunately, such an approach leads to many problems that prevent effective management of architectural evolution. To overcome these problems, we have developed an alternative approach cent ...

Keywords: Design environment, Mae, evolution, system model

38 LH*_{RS}---a highly-available scalable distributed data structure

Witold Litwin, Rim Moussa, Thomas Schwarz

September 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 3

Publisher: ACM Press

Full text available:

Additional Information:

pdf(774.32 KB)

full citation, abstract, references, index terms

LH*RS is a high-availability scalable distributed data structure (SDDS). An LH*RS file is hash partitioned over the distributed RAM of a multicomputer, for example, a network of PCs, and supports the unavailability of any k ≥ 1 of its server nodes. The value of k transparently grows with the file to offset the reliability decline. Only the number of the storage nodes potentially limits the file growth. The high-availability management uses a novel ...

Keywords: P2P, Scalable distributed data structure, grid computing, high-availability, linear hashing, physical database design

39 Computer Communication Networks: Approaches, Objectives, and Performance

Considerations

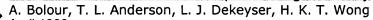
Stephen R. Kimbleton, G. Michael Schneider

September 1975 ACM Computing Surveys (CSUR), Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(3.99 MB) Additional Information: full citation, references, citings, index terms

40 The role of time in information processing: a survey



April 1982 ACM SIGART Bulletin, Issue 80

Publisher: ACM Press

Additional Information: full citation, abstract, references Full text available: pdf(2.12 MB)

Numerous researchers in a handful of disciplines have been concerned, in recent years, with the special role (or roles) that time seems to play in information processing. Designers of computerized information systems have had to deal with the fact that when an information item becomes outdated, it need not be forgotten. Researchers in artificial intelligence have pointed to the need for a realistic world model to include representations not only for snapshot descriptions of the real world, but a ...

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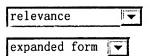
Terms used

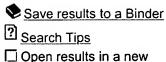
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Relevance scale

41 Temporal sequence learning and data reduction for anomaly detection



Terran Lane, Carla E. Brodley

August 1999 ACM Transactions on Information and System Security (TISSEC), Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(628.31 KB) · Additional Information: full citation, abstract, references, citings, index

The anomaly-detection problem can be formulated as one of learning to characterize the behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) techniques. To cast the anomaly-detection task in an IBL framework, we employ an approach that transforms temporal sequences of discrete, unordered observations into a metric space via a similarity measure that encodes intra-attribute depende ...

Keywords: anomaly detection, clustering, data reduction, empirical evaluation, instance based learning, machine learning, user profiling

42 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 ACM SIGART Bulletin, Issue 70

Publisher: ACM Press

Full text available: 🔁 pdf(13.13 MB) . Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

43 Flexible reference trace reduction for VM simulations

Scott F. Kaplan, Yannis Smaragdakis, Paul R. Wilson

January 2003 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 13 Issue 1

Publisher: ACM Press

Full text available: 🔂 pdf(415.81 KB) Additional Information: full citation, abstract, references, citings, index

The unmanageably large size of reference traces has spurred the development of sophisticated trace reduction techniques. In this article we present two new algorithms for trace reduction: Safely Allowed Drop (SAD) and Optimal LRU Reduction (OLR). Both achieve high reduction factors and guarantee exact simulations for common replacement policies and for memories larger than a user-defined threshold. In particular, simulation on OLR-reduced traces is accurate for the LRU repla ...

Keywords: cache hierarchies, locality, reference traces, trace compression, trace reduction

44 ABSTRACTS OF INTEREST

Susanne M. Humphrey, Ben Shneiderman January 1990 ACM SIGCHI Bulletin, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract

The following abstracts were selected from a computer search using the BRS Information Technologies retrieval services of the Dissertation Abstracts International (DAI) database produced by University Microfilms International. Unless otherwise specified, paper or microform copies of dissertations may be ordered, using the UM order number, from University Microfilms International, Dissertation Copies, Post Office Box 1764, Ann Arbor, MI 488106; telephone for U.S. (except Michigan, Hawaii, or Alask ...

45 Grapevine: an exercise in distributed computing

Andrew D. Birrell, Roy Levin, Michael D. Schroeder, Roger M. Needham April 1982 Communications of the ACM, Volume 25 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.71 MB) terms

Grapevine is a multicomputer system on the Xerox research internet. It provides facilities for the delivery of digital messages such as computer mail; for naming people, machines, and services; for authenticating people and machines; and for locating services on the internet. This paper has two goals: to describe the system itself and to serve as a case study of a real application of distributed computing. Part I describes the set of services provided by Grapevine and how its data and funct ...

46 Trace-driven memory simulation: a survey

Richard A. Uhlig, Trevor N. Mudge

June 1997 ACM Computing Surveys (CSUR), Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(636.11 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

As the gap between processor and memory speeds continues to widen, methods for evaluating memory system designs before they are implemented in hardware are becoming increasingly important. One such method, trace-driven memory simulation, has been the subject of intense interest among researchers and has, as a result, enjoyed rapid development and substantial improvements during the past decade. This article surveys and analyzes these developments by establishing criteria for evaluating trac ...

Keywords: TLBs, caches, memory management, memory simulation, trace-driven simulation

47 Accelerating XPath evaluation in any RDBMS

Torsten Grust, Maurice Van Keulen, Jens Teubner

March 2004 ACM Transactions on Database Systems (TODS), Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(781.01 KB) Additional Information: full citation, abstract, references, index terms

This article is a proposal for a database index structure, the XPath accelerator, that has been specifically designed to support the evaluation of XPath path expressions. As such, the index is capable to support all XPath axes (including ancestor, following, preceding-sibling, descendant-or-self, etc.). This feature lets the index stand out among related work on XML indexing structures which had a focus on the child and descendant axes only. The index has been designed with a close ...

Keywords: Main-memory databases, XML, XML indexing, XPath

48 The structure and operation of a relational database system in a cell-oriented integrated circuit design system

Lee Hollaar, Brent Nelson, Tony Carter, Raymond A. Lorie

June 1984 Proceedings of the 21st conference on Design automation

Publisher: IEEE Press

Full text available: pdf(948.91 KB)

Additional Information: full citation, abstract, references, citings, index terms

An important use for a database management system is in the storage and handling of information for engineering design, particularly integrated circuit design. However, most discussions on this topic have concentrated on the layout of shapes necessary to form the various circuit elements, or connections between user-defined cells. Equally important, but often disregarded, is the necessity to support other design tools in addition to graphics for circuit layout. These include simulators and ...

49 <u>Dissertation Abstracts in Computer Graphics</u>

January 1992 ACM SIGGRAPH Computer Graphics, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(2.53 MB) Additional Information: full citation

50 Automated hoarding for mobile computers

Geoffrey H. Kuenning, Gerald J. Popek

October 1997 ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97, Volume 31 Issue

Publisher: ACM Press

Full text available: pdf(2.05 MB) Additional Information: full citation, references, citings, index terms

51 The future of programming

Anthony I. Wasserman, Steven Gutz

March 1982 Communications of the ACM, Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(1.29 MB)

Additional Information: full citation, abstract, references, citings, index terms

The nature of programming is changing. These changes will accelerate as improved software development practices and more sophisticated development tools and environments are produced. This paper surveys the most likely changes in the programming task and in the nature of software over the short term, the medium term, and the long term. In the short term, the focus is on gains in programmer productivity through improved tools and integrated development environments. In the medium ...

Keywords: integrated development environments, personal development systems, prototyping, software components, software development methodology

52 Active database systems

Norman W. Paton, Oscar Díaz

March 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(2.68 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested. This high level of activity has not yielded a single agreed-upon standard approach to the integration of active functionality with conventional databa ...

Keywords: active databases, events, object-oriented databases, relational databases

53 The file system of an integrated local network

Paul J. Leach, Paul H. Levine, James A. Hamilton, Bernard L. Stumpf

March 1985 Proceedings of the 1985 ACM thirteenth annual conference on Computer Science

Publisher: ACM Press

Full text available: pdf(1.78 MB)

Additional Information: full citation, abstract, references, citings, index terms

The distributed file system component of the DOMAIN system is described. The DOMAIN system is an architecture for networks of personal workstations and servers which creates an integrated distributed computing environment. The distinctive features of the file system include: objects addressed by unique identifiers (UIDs); transparent access to objects, regardless of their location in the network; the abstraction of a single level store for accessing all objects; and the layering of a networ ...

54 An optimality proof of the LRU-K page replacement algorithm

Elizabeth J. O'Neil, Patrick E. O'Neil, Gerhard Weikum January 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 1

Publisher: ACM Press

Full text available: pdf(140.72 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper analyzes a recently published algorithm for page replacement in hierarchical paged memory systems [O'Neil et al. 1993]. The algorithm is called the LRU-K method, and reduces to the well-known LRU (Least Recently Used) method for K = 1. Previous work [O'Neil et al. 1993; Weikum et al. 1994; Johnson and Shasha 1994] has shown the effectiveness for K > 1 by simulation, especially in the most common case of K = 2. ...

Keywords: LRU, LRU-K, optimality, page-replacement

55 Virtual machine monitors: Terra: a virtual machine-based platform for trusted

computing

Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh
October 2003 Proceedings of the nineteenth ACM symposium on Operating systems
principles

Publisher: ACM Press

Full text available: pdf(140.31 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, dedicated, tamper-resistant hardware platform, while retaining the ability to run side-by-side with normal applications on a general-purpose computing platform. Terra achieves this synthesis by use of a *trusted virtual machine monitor* (TVMM ...

Keywords: VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

56 Relational queries over program traces



Simon Goldsmith, Robert O'Callahan, Alex Aiken

October 2005 ACM SIGPLAN Notices, Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming systems languages and applications OOPSLA '05, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(192.17 KB)

Additional Information: full citation, abstract, references, citings, index terms

Instrumenting programs with code to monitor runtime behavior is a common technique for profiling and debugging. In practice, instrumentation is either inserted manually by programmers, or automatically by specialized tools that monitor particular properties. We propose Program Trace Query Language (PTQL), a language based on relational queries over program traces, in which programmers can write expressive, declarative queries about program behavior. We also describe our compiler, Partiqle

Keywords: PTQL, partiqle, program trace query language, relational

57 Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield

October 2003 Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM Press

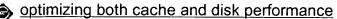
Full text available: pdf(168.76 KB)

Additional Information: full citation, abstract, references, citings, index terms

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

Research sessions: implementation techniques: Fractal prefetching B±-Trees:



Shimin Chen, Phillip B. Gibbons, Todd C. Mowry, Gary Valentin

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Full text available: pdf(1.49 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

B+-Trees have been traditionally optimized for I/O performance with disk pages as tree nodes. Recently, researchers have proposed new types of B+-Trees optimized for CPU cache performance in main memory environments, where the tree node sizes are one or a few cache lines. Unfortunately, due primarily to this large discrepancy in optimal node sizes, existing disk-optimized B+-Trees suffer from poor cache performance while cache-optimized B+-Trees exhibi ...

59 The design and building of Enchère, a distributed electronic marketing system

Jean-Pierre Banâtre, Michel Banâtre, Guy Lapalme, Florimond Ployette January 1986 Communications of the ACM, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.05 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Building and prototyping an agricultural electronic marketing system involved experimenting with distributed synchronization, atomic activity, and commit protocols and recovery algorithms.

A survey of Web cache replacement strategies



Stefan Podlipnig, Laszlo Böszörmenyi

December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(193.37 KB) Additional Information: full citation, abstract, references, index terms

Web caching is an important technique to scale the Internet. One important performance factor of Web caches is the replacement strategy. Due to specific characteristics of the World Wide Web, there exist a huge number of proposals for cache replacement. This article proposes a classification for these proposals that subsumes prior classifications. Using this classification, different proposals and their advantages and disadvantages are described. Furthermore, the article discusses the importance ...

Keywords: Web caching, replacement strategies

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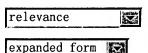
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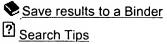
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Relevance scale

61 The evolution of Coda



M. Satyanarayanan

May 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 2

Publisher: ACM Press

Full text available: pdf(441.35 KB)

Additional Information: full citation, abstract, references, citings, index

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

62 Launching the new era



🙈 Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick

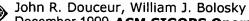
March 1993 Communications of the ACM, Volume 36 Issue 3

Publisher: ACM Press

Full text available: pdf(3.45 MB)

Additional Information: full citation, references, index terms, review

63 Progress-based regulation of low-importance processes



December 1999 ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP

'99, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

MS Manners is a mechanism that employs progress-based regulation to prevent resource contention with low-importance processes from degrading the performance of highimportance processes. The mechanism assumes that resource contention that degrades the performance of a high-importance process will also retard the progress of the lowimportance process. MS Manners detects this contention by monitoring the progress of the low-importance process and inferring resource contention from a drop in the p ...

Keywords: process priority, progress-based feedback, symmetric resource contention

64 Converging CSP specifications and C++ programming via selective formalism

William B. Gardner

May 2005 ACM Transactions on Embedded Computing Systems (TECS), Volume 4 Issue 2 Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(617.07 KB) terms

CSP (communicating sequential processes) is a useful algebraic notation for creating a hierarchical behavioral specification for concurrent systems, due to its formal interprocess synchronization and communication semantics. CSP specifications are amenable to simulation and formal verification by model-checking tools. A translator has been created to synthesize C+ + code from CSP for execution with an object-oriented framework called CSP+ +, thereby making CSP specifications di ...

Keywords: Executable specifications, hardware/software codesign, object-oriented application frameworks

65 Columns: Risks to the public in computers and related systems

Peter G. Neumann

January 2001 ACM SIGSOFT Software Engineering Notes, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(3.24 MB) Additional Information: full citation

66 A network environment for computer-supported cooperative work

J. Whitescarver, P. Mukherji, M. Turoff, R. J. DeBlock, R. M. Czech, B. K. Paul August 1987 ACM SIGCOMM Computer Communication Review, Proceedings of the

ACM workshop on Frontiers in computer communications technology SIGCOMM '87, Volume 17 Issue 5

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, index terms

A second generation computer supported cooperative work system called Electronic Information Exchange System (EIES2) is described in this paper. The EIES2 communications environment allows users to network across geographical constraints using asynchronous or synchronous communications. The architecture of the network environment is decentralized, and is implemented using modern standards, and an easyto-use user interface. At the heart of EIES2 is a high-level, object oriented p ...

67 Knowledge representation in "Default": An attempt to classify general types of

knowledge used by legal experts

R. D. Purdy

December 1987 Proceedings of the 1st international conference on Artificial intelligence and law

Publisher: ACM Press

Full text available: pdf(1.07 MB) . Additional Information: full citation, references, index terms

Risks to the public in computers and related systems

🖍 Peter G. Neumann

April 1991 ACM SIGSOFT Software Engineering Notes, Volume 16 Issue 2

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, index terms

69 Understanding object-oriented: a unifying paradigm

Tim Korson, John D. McGregor

September 1990 Communications of the ACM, Volume 33 Issue 9

Publisher: ACM Press

Full text available: pdf(2.30 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The need to develop and maintain large complex software systems in a competitive and dynamic environment has driven interest in new approaches to software design and development. The problems with the classical waterfall model have been cataloged in almost every software engineering text [19,23]. In response, alternative models such as the spiral [2], and fountain [9] have been proposed. Problems with traditional development using the classical life cycle include no iteration, no ...

70 Computing with structured connectionist networks

Jerome A. Feldman, Mark A. Fanty, Nigel H. Goddard, Kenton J. Lynne February 1988 **Communications of the ACM**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(1.93 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The design and applications of massively parallel computational models could lead to dramatic advances in the ability to automate complex tasks such as those found in artificial intelligence.

71 Link and channel measurement: A simple mechanism for capturing and replaying

wireless channels

Glenn Judd, Peter Steenkiste

August 2005 Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05

Publisher: ACM Press

Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

72 The internet worm program: an analysis

Eugene H. Spafford

January 1989 ACM SIGCOMM Computer Communication Review, Volume 19 Issue 1

Publisher: ACM Press

Full text available: pdf(2.45 MB) Additional Information: full citation, abstract, citings, index terms

On the evening of 2 November 1988, someone infected the Internet with a worm program. That program exploited flaws in utility programs in systems based on BSDderived versions of UNIX. The flaws allowed the program to break into those machines and copy itself, thus infecting those systems. This program eventually spread to thousands of machines, and disrupted normal activities and Internet connectivity for many days. This report gives a detailed description of the components of the ...

73 The space shuttle primary computer system

Alfred Spector, David Gifford

September 1984 Communications of the ACM, Volume 27 Issue 9

Publisher: ACM Press

Full text available: pdf(5.34 MB) Additional Information: full citation, references, citings, index terms

Keywords: PASS, avionics system, space shuttle

74 The family of concurrent logic programming languages

Ehud Shapiro

September 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(9.62 MB) Additional Information: full citation, abstract, references, citings, index

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

75 Data integrity: Web application security assessment by fault injection and behavior

monitorina

Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai May 2003 Proceedings of the 12th international conference on World Wide Web

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(4.53 MB) terms

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security assessment,

web application testing

76 What is a file synchronizer?

S. Balasubramaniam, Benjamin C. Pierce

October 1998 Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking

Publisher: ACM Press

Full text available: pdf(1.21 MB) Additional Information: full citation, references, citings, index terms

77 Report on the Second European SIGOPS Workshop "making distributed systems

work"

Sape Mullender

January 1987 ACM SIGOPS Operating Systems Review, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(1.89 MB) Additional Information: full citation, index terms

78 Access pattern-based memory and connectivity architecture exploration

Peter Grun, Nikil Dutt, Alex Nicolau February 2003 ACM Transactions on Embedded Computing Systems (TECS), Volume 2

Issue 1
Publisher: ACM Press

Full text available: pdf(857.06 KB) Additional Information: full citation, abstract, references, index terms

Memory accesses represent a major bottleneck in embedded systems power and performance. Traditionally, designers tried to alleviate this problem by relying on a simple cache hierarchy, or a limited use of special purpose memory modules such as stream buffers. Although real-life applications contain a large number of memory references to a diverse set of data structures, a significant percentage of all memory accesses in the application are generated from a few memory instructions that exhibit pr ...

Keywords: Memory, access patterns, architecture exploration

79 Abstraction-based intrusion detection in distributed environments

Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 ACM Transactions on Information and System Security (TISSEC),

Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(590.61 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported in current intrusion-detection systems (IDSs). This article presents a hierarchical model to support attack specification and event abstraction in distributed intrusion detection. The model involves three concepts: system view, signature ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection, misuse detection

80 Toward the domestication of microelectronics



Joel S. Birnbaum

November 1985 Communications of the ACM, Volume 28 Issue 11

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, citings, index terms, review

The great challenge for computer science in this decade is to make computers usable by everyone. Computers, long viewed as a dehumanizing force, will become the most powerful means of personal creative expression and communication ever known.

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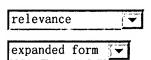
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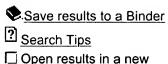
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Relevance scale

81 Lessons learned from SUIT, the simple user interface toolkit

Randy Pausch, Matthew Conway, Robert Deline

October 1992 ACM Transactions on Information Systems (TOIS), Volume 10 Issue 4

Publisher: ACM Press

Full text available: pdf(2.16 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

In recent years, the computer science community has realized the advantages of GUIs (Graphical User Interfaces). Because high-quality GUIs are difficult to build, support tools such as UIMSs, UI Toolkits, and Interface Builders have been developed. Although these tools are powerful, they typically make two assumptions: first, that the programmer has some familiarity with the GUI model, and second, that he is willing to invest several weeks becoming proficient with the tool. These tools typi ...

Keywords: GUI, UIMS, export, graphical user interface, learnability, pedagogy, portability, rapid prototyping, software tools, user interface toolkit

82 Experiments with digital video playback

Richard Gerber, Ladan Gharai

May 1996 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '96, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

In this paper we describe our experiments on digital video applications, concentrating on the static and dynamic tradeoffs involved in video playback. Our results were extracted from a controlled series of 272 tests, which we ran in three stages. In the first stage of 120 tests, we used a simple player-monitor tool to evaluate the effects of various static parameters: compression type, frame size, digitized rate, spatial quality and keyframe distribution. The tests were carried out ...

83 Graphs and trees: ANF: a fast and scalable tool for data mining in massive graphs

Christopher R. Palmer, Phillip B. Gibbons, Christos Faloutsos

July 2002 Proceedings of the eighth ACM SIGKDD international conference on

Knowledge discovery and data mining

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.07 MB) terms

Graphs are an increasingly important data source, with such important graphs as the Internet and the Web. Other familiar graphs include CAD circuits, phone records, gene sequences, city streets, social networks and academic citations. Any kind of relationship, such as actors appearing in movies, can be represented as a graph. This work presents a data mining tool, called ANF, that can quickly answer a number of interesting questions on graph-represented data, such as the following. How robust is ...

84 Digital libraries and cyberinfastructure track: creating information representations for



the humanities (part 2): E-library of medieval chant manuscript transcriptions Louis W. G. Barton, John A. Caldwell, Peter G. Jeavons

June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

Full text available: Tpdf(668.36 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present our rationale and design principles for a distributed e-library of medieval chant manuscript transcriptions. We describe the great variety in neumatic notations, in order to motivate a standardised data representation that is lossless and universal with respect to these musical artefacts. We present some details of the data representation and an XML Schema for describing and delivering transcriptions via the Web. We argue against proposed data format ...

Keywords: XML, chant, comparison, data representation, digital libraries, medieval manuscripts, musical notation, search, transcription

85 An automatic lip-synchronization algorithm for synthetic faces





K. Waters, T. Levergood

October 1994 Proceedings of the second ACM international conference on Multimedia

Publisher: ACM Press

Full text available: pdf(787.45 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper addresses the problem of automatically synchronizing computer-generated faces with synthetic speech. The complete process provides a novel form of face-to-face communication and the ability to create a new range of talking personable synthetic characters. Based on plain ASCII text input, a synthetic speech segment is generated and synchronized in real-time to a graphical display of an articulating mouth and face. The key component of the algorithm is the run-time ...

86 TinyDB: an acquisitional query processing system for sensor networks



Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong March 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(1.67 MB) · Additional Information: full citation, abstract, references, index terms

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (sampled) and delivered to query processing operators. By focusing on the locations and costs of acquiring data, we are able to significantly reduce power consumption over traditional passive systems that assume the a priori existence of data. We discuss simple extensions to SQL for controlli ...

Keywords: Query processing, data acquisition, sensor networks

87 Sensor databases: The design of an acquisitional query processor for sensor



networks

Samuel Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(485.52 KB)

Additional Information: full citation, abstract, references, citings, index terms

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (sampled) and delivered to query processing operators. By focusing on the locations and costs of acquiring data, we are able to significantly reduce power consumption over traditional passive systems that assume the a priori existence of data. We discuss simple extensions to SQL for co ...

88 A study of Erlang ETS table implementations and performance



Scott Lystig Fritchie

August 2003 Proceedings of the 2003 ACM SIGPLAN workshop on Erlang

Publisher: ACM Press

Full text available: pdf(232.17 KB) Additional Information: full citation, abstract, references, index terms

The viability of implementing an in-memory database, Erlang ETS, using a relatively-new data structure, called a Judy array, was studied by comparing the performance of ETS tables based on four data structures: AVL balanced binary trees, B-trees, resizable linear hash tables, and Judy arrays. The benchmarks used workloads of sequentially- and randomly-ordered keys at table populations from 700 keys to 54 million keys.Benchmark results show that ETS table insertion, lookup, and update operations ...

Keywords: AVL tree, B-tree, Erlang, Judy array, hash table, in-memory database

89 Programming in an Interactive Environment: the "Lisp" Experience



Erik Sandewall

March 1978 ACM Computing Surveys (CSUR), Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(3.25 MB) Additional Information: full citation, references, citings, index terms

90 Toward best maintenance practices in communications network management Faouzi Kamoun



Full text available: Top pdf(132.43 KB) Additional Information: full citation, abstract, references, index terms

Best maintenance practices in communications networks management are benchmarking standards that, if carefully implemented, will enhance the integrity, reliability and maintenance costs of communications networks. This paper defines best maintenance practices in communications network management within a concise framework encompassing measurable performance-level goals as well as methods and procedures needed to achieve these goals. The best maintenance practice recommendations of this paper cov ...

91 The role of time in information processing: a survey

A. Bolour, T. L. Anderson, L. J. Dekeyser, H. K. T. Wong

April 1982 ACM SIGMOD Record, Volume 12 Issue 3

Publisher: ACM Press

Full text available: pdf(2.16 MB) Additional Information: full citation, references, citings

92 Cache Memories

Alan Jay Smith
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(4.61 MB) Additional Information: full citation, references, citings, index terms

93 Automatic generation of program specifications

Jeremy W. Nimmer, Michael D. Ernst

July 2002 ACM SIGSOFT Software Engineering Notes, Proceedings of the 2002 ACM

SIGSOFT international symposium on Software testing and analysis ISSTA

'02, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(154.41 KB) Additional Information: full citation, abstract, references, citings

Producing specifications by dynamic (runtime) analysis of program executions is potentially unsound, because the analyzed executions may not fully characterize all possible executions of the program. In practice, how accurate are the results of a dynamic analysis? This paper describes the results of an investigation into this question, determining how much specifications generalized from program runs must be changed in order to be verified by a static checker. Surprisingly, small test suites cap ...

94 Memory optimization methodologies: APEX: access pattern based memory

<u>architecture exploration</u>

Peter Grun, Nikil Dutt, Alex Nicolau

September 2001 Proceedings of the 14th international symposium on Systems synthesis

Publisher: ACM Press

Full text available: pdf(377.05 KB). Additional Information: full citation, abstract, references, citings, index terms

Memory accesses represent a major bottleneck in embedded systems power and performance. Traditionally, designers tried to alleviate this problem by relying on a simple cache hierarchy, or a limited use of special purpose memory modules such as stream buffers. Although real-life applications contain a large number of memory references to a diverse set of data structures, a significant percentage of all memory accesses in the application are generated from a few memory instructions that exhibit pr ...

95 Behavioral Aspects of Text Editors

David W. Embley, George Nagy
March 1981 ACM Computing Surveys (CSUR), Volume 13 Issue 1

Publisher: ACM Press

Full text available: pdf(3.44 MB) Additional Information: full citation, references, citings

96 Earthquake ground motion modeling on parallel computers



Hesheng Bao, Jacobo Bielak, Omar Ghattas, Loukas F. Kallivokas, David R. O'Hallaron, Jonathan R. Shewchuk, Jifeng Xu

November 1996 Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '96

Publisher: ACM Press, IEEE Computer Society

Full text available: html(65.97 KB)

Additional Information: full citation, abstract, references, citings, index terms

We describe the design and discuss the performance of a parallel elastic wave propagation simulator that is being used to model and study earthquake-induced ground motion in large sedimentary basins. The components of the system include mesh generators, a mesh partitioner, a parceler, and a parallel code generator, as well as parallel numerical methods for applying seismic forces, incorporating absorbing boundaries, and solving the discretized wave propagation problem. We discuss performanc ...

97 Bioinformatics—an introduction for computer scientists



Jacques Cohen

June 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 2

Publisher: ACM Press

Full text available: pdf(261.56 KB) Additional Information: full citation, abstract, references, index terms

The article aims to introduce computer scientists to the new field of bioinformatics. This area has arisen from the needs of biologists to utilize and help interpret the vast amounts of data that are constantly being gathered in genomic research---and its more recent counterparts, proteomics and functional genomics. The ultimate goal of bioinformatics is to develop in silico models that will complement in vitro and in vivo biological experiments. The article provides a bird's eye view of the ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation and modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

98 A new approach to developing and implementing eager database replication



protocols

Bettina Kemme, Gustavo Alonso

September 2000 ACM Transactions on Database Systems (TODS), Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(449.43 KB) . Additional Information: full citation, abstract, references, citings, index terms, review

Database replication is traditionally seen as a way to increase the availability and performance of distributed databases. Although a large number of protocols providing data consistency and fault-tolerance have been proposed, few of these ideas have ever been used in commercial products due to their complexity and performance implications. Instead, current products allow inconsistencies and often resort to centralized approaches which eliminates some of the advantages of replication. As an ...

Keywords: database replication, fault-tolerance, group communication, isolation levels, one-copy-serializability, replica control, total error multicast

99 MPEG-4: an object-based multimedia coding standard supporting mobile applications Atul Puri, Alexandros Eleftheriadis

June 1998 Mobile Networks and Applications, Volume 3 Issue 1



Publisher: Kluwer Academic Publishers

Full text available: pdf(747.80 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

Consistency maintenance in real-time collaborative graphics editing systems
Chengzheng Sun, David Chen



March 2002 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 9 Issue

Publisher: ACM Press

Full text available: pdf(480.90 KB)

Additional Information: full citation, abstract, references, citings, index terms

Real-time collaborative graphics editing systems allow a group of users to view and edit the same graphics document at the same time from geographically dispersed sites connected by communication networks. Consistency maintenance in the face of concurrent accesses to shared objects is one of the core issues in the design of these types of systems. In this article, we propose an object-level multiversioning approach to consistency maintenance in real-time collaborative graphic editors. This appro ...

Keywords: Collaborative graphics editors, GRACE, computer-supported cooperative work, consistence maintenance, convergence, groupware, intention preservation, multiversioning

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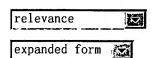
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Relevance scale

101 Model instantiation for query driven simulation in active KDL

John A. Miller, Walter D. Potter, Krys J. Kochut, Orville R. Weyrich

April 1990 ACM SIGSIM Simulation Digest, Proceedings of the 23rd annual symposium on Simulation ANSS '90, Volume 20 Issue 4

Publisher: IEEE Press, ACM Press

Full text available: pdf(1.58 MB)

Additional Information: full citation, abstract, references, citings, index terms

The focus of this paper is on how Active KDL can be used to provide a very powerful simulation support environment. Active KDL (Knowledge/Data Language) is an objectoriented database programming language, which provides access to integrated model, knowledge, and data bases. Simulation inputs and outputs can be stored by Active KDL since it supports complex objects. More importantly, Active KDL also allows users to specify rules to capture heuristic knowled ...

102 Replication for web hosting systems



Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen September 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 3

Publisher: ACM Press

Full text available: pdf(374.99 KB) Additional Information: full citation, abstract, references, index terms

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks (CDNs) have been created to facilitate replication for digital content providers. The success of these CDNs has triggered further research efforts into developing advanced <i>Web replica hosting systems</i>. These are systems that ...

Keywords: Web replication, content delivery networks

103 Sensor databases: Cache-and-query for wide area sensor databases

Amol Deshpande, Suman Nath, Phillip B. Gibbons, Srinivasan Seshan

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(230.75 KB) - Additional Information: full citation, abstract, references, citings, index terms

Webcams, microphones, pressure gauges and other sensors provide exciting new opportunities for querying and monitoring the physical world. In this paper we focus on querying wide area sensor databases, containing (XML) data derived from sensors spread over tens to thousands of miles. We present the first scalable system for executing XPATH queries on such databases. The system maintains the logical view of the data as a single XML document, while physically the data is fragmented across a ...

104 GPSR: greedy perimeter stateless routing for wireless networks

Brad Karp, H. T. Kung

August 2000 Proceedings of the 6th annual international conference on Mobile computing and networking

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings

We present Greedy Perimeter Stateless Routing (GPSR), a novel routing protocol for wireless datagram networks that uses the positions of routers and a packet's destination to make packet forwarding decisions. GPSR makes greedy forwarding decisions using only information about a router's immediate neighbors in the network topology. When a packet reaches a region where greedy forwarding is impossible, the algorithm recovers by routing around the perim ...

105 View management in multimedia databases

K. Selçuk Candan, Eric Lemar, V. S. Subrahmanian

July 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(322.82 KB) Additional Information: full citation, abstract, index terms

Though there has been extensive work on multimedia databases in the last few years, there is no prevailing notion of a multimedia view, nor there are techniques to create, manage, and maintain such views. Visualizing the results of a dynamic multimedia query or materializing a dynamic multimedia view corresponds to assembling and delivering an interactive multimedia presentation in accordance with the visualization specifications. In this paper, we suggest that a non-interactive multimedia prese ...

Keywords: Interactivity, Multimedia databases, Prefetching, Result visualization/presentation, View management

106 Garbage collecting the world: one car at a time

Richard L. Hudson, Ron Morrison, J. Eliot B. Moss, David S. Munro

October 1997 ACM SIGPLAN Notices, Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '97, Volume 32 Issue 10

Publisher: ACM Press

Full text available: pdf(1.94 MB)

Additional Information: full citation, abstract, references, citings, index terms

A new garbage collection algorithm for distributed object systems, called DMOS (Distributed. Mature Object Space), is presented. It is derived from two previous algorithms, MOS (Mature Object Space), sometimes called the train algorithm, and PMOS (Persistent Mature Object Space). The contribution of DMOS is that it provides the following unique combination of properties for a distributed collector: safety, completeness, non-disruptiveness, incrementality, and scalability. Furthermore, the DMOS c ...

107 Migrating a CISC computer family onto RISC via object code translation

Kristy Andrews, Duane Sand

September 1992 ACM SIGPLAN Notices, Proceedings of the fifth international conference on Architectural support for programming languages and operating systems ASPLOS-V, Volume 27 Issue 9

Publisher: ACM Press

Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

108 Research papers: estimation and approximation: A disk-based join with probabilistic

guarantees

Christopher Jermaine, Alin Dobra, Subramanian Arumugam, Shantanu Joshi, Abhijit Pol June 2005 Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: Dpdf(362.07 KB) Additional Information: full citation, abstract, references

One of the most common operations in analytic query processing is the application of an aggregate function to the result of a relational join. We describe an algorithm for computing the answer to such a query over large, disk-based input tables. The key innovation of our algorithm is that at all times, it provides an online, statistical estimator for the eventual answer to the query, as well as probabilistic confidence bounds. Thus, a user can monitor the progress of the join throughout its exec ...

109 ViSWeb—the Visual Semantic Web: unifying human and machine knowledge representations with Object-Process Methodology

Dov Dori

May 2004 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 13 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, index terms

The Visual Semantic Web (ViSWeb) is a new paradigm for enhancing the current Semantic Web technology. Based on Object-Process Methodology (OPM), which enables modeling of systems in a single graphic and textual model, ViSWeb provides for representation of knowledge over the Web in a unified way that caters to human perceptions while also being machine processable. The advantages of the ViSWeb approach include equivalent graphic-text knowledge representation, visual navigability, semantic sentenc ...

Keywords: Conceptual graphs, Knowledge representation, Object-Process Methodology, Semantic Web, Visual Semantic Web

110 ABSTRACTS OF INTEREST



Susanne M. Humphrey, Ben Shneiderman

November 1990 ACM SIGCHI Bulletin, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract

The following abstracts were selected from a computer search using the BRS Information Technologies retrieval services of the Dissertation Abstracts International (DAI) database produced by University Microfilms International. Unless otherwise specified, paper or microform copies of dissertations may be ordered, using the UM order number, from University Microfilms International, Dissertation Copies, Post Office Box 1764, Ann Arbor, MI 488106; telephone for U.S. (except Michigan, Hawaii, or Alask ...

111 Design and evaluation of a wide-area event notification service

August 2001 ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 3 **Publisher: ACM Press**

Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provid ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

112 Developing and implementing a comprehensive training and incentive program for

student employees in information Jim Osborn

> October 2000 Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future

Publisher: ACM Press

Full text available: pdf(165.84 KB) Additional Information: full citation, index terms

Keywords: incentives, student employees, training

113 Limitations on the portability of real time Ada programs

T. Griest, m. Bender

January 1989 Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment

Publisher: ACM Press

Full text available: pdf(1.76 MB) . Additional Information: full citation, abstract, references, index terms

This paper describes areas of the Ada language where transportability is restricted by the fact that implementation choices are allowed. Transportability guidelines have been developed previously for Ada [2,3,10], but have taken the approach that only features of the language which are guaranteed to be supported by all implementations should be used. The "common intersection" approach rules out use of many features that were included in Ada because they are required for real-tim ...

114 Risks to the public in computers and related systems



Peter G. Neumann

July 1991 ACM SIGSOFT Software Engineering Notes, Volume 16 Issue 3

Publisher: ACM Press

Full text available: pdf(2.79 MB) Additional Information: full citation, index terms

115 Network Protocols



Andrew S. Tanenbaum

December 1981 ACM Computing Surveys (CSUR), Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(3.37 MB) Additional Information: full citation, references, citings, index terms

116 Guidance for the use of the Ada programming language in high integrity systems

B. A. Wichmann

July 1998 ACM SIGAda Ada Letters, Volume XVIII Issue 4

Publisher: ACM Press

Full text available: pdf(2.93 MB)

Additional Information: full citation, abstract, citings, index terms

This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for comment. Many people have contributed to this, but those who have either attended two recent meetings of group or have made substantial e-mail comments are: Praful V Bhansali (Boeing, USA), Alan Burns (University of York, UK), Bernard Carre' (Praxis Critical Systems, UK), Dan Craigen (ORA, Canada), Nick Johnson MoD, UK), Stephen Michell (Canada), Gilles Motet (DGEI/INSA, France), George Roma ...

117 Coordination models, languages and applications: Formal verification of replication





on a distributed data space architecture Jozef Hooman, Jaco van de Pol

March 2002 Proceedings of the 2002 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(777.36 KB)

Additional Information: full citation, abstract, references, citings, index terms

We investigate the formal verification of safety-critical systems on top of the distributed data space architecture Splice. In Splice each component has its own local data space which can be kept small using keys, time stamps and selective over-writing. We use two complementary formal tools: first the µCRL tool set for a rapid investigation of alternatives by a limited verification with state space exploration techniques; next the most promising solutions are verified in general by means o ...

Keywords: coordination, data space architecture, formal verification, model-checking, theorem proving

118 A large distributed control system using Ada in fusion research



John P. Woodruff, Paul J. Van Arsdall

November 1998 ACM SIGAda Ada Letters, Proceedings of the 1998 annual ACM SIGAda international conference on Ada SIGAda '98, Volume XVIII Issue 6

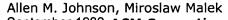
Publisher: ACM Press

Full text available: pdf(1.45 MB)

Additional Information: full citation, references, index terms

Keywords: CORBA, application frameworks, distributed control system, levels of abstraction, object-oriented development

119 Survey of software tools for evaluating reliability, availability, and serviceability



September 1988 ACM Computing Surveys (CSUR), Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(3.79 MB)

Additional Information: full citation, abstract, references, citings, index

In computer design, it is essential to know the effectiveness of different design options in improving performance and dependability. Various software tools have been created to evaluate these parameters, applying both analytic and simulation techniques, and this paper reviews those related primarily to reliability, availability, and serviceability. The purpose, type of models used, type of systems modeled, inputs, and outputs are given for each package. Examples of some of the key modeling ...

120 Simulation modelling support via network based concepts

Stephen C. Mathewson

December 1990 Proceedings of the 22nd conference on Winter simulation

Publisher: IEEE Press

Full text available: pdf(953.01 KB) Additional Information: full citation, references, citings, index terms

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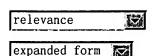
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121 A framework for adaptive UbiComp applications based on the jack-in-the-net architecture

Tomoko Itao, Satoshi Tanaka, Tatsuya Suda, Tomonori Aoyama May 2004 Wireless Networks, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: Topdf(502.43 KB) Additional Information: full citation, abstract, references, index terms

The Jack-in-the-Net Architecture (Ja-Net) that we present in this paper provides a unique and promising approach to design ubiquitous computing applications that can scale, selforganize, and adapt to short- and long-term changes in network conditions and user preferences. In Ja-Net, network applications are implemented by a group of distributed, autonomous entities called the cyber-entities. Each cyber-entity implements a function component related to its service and follows simple behavior rul ...

Keywords: mobile agent, relationship, service emergence, ubiquitous computing, user preferences

122 Information & control systems: roadblock or bridge to renewal?

J. Friso den Hertog

January 1982 ACM SIGMIS Database, Volume 13 Issue 2-3

Publisher: ACM Press

Full text available: pdf(1.28 MB) Additional Information: full citation, references

123 XSQ: A streaming XPath engine

Feng Peng, Sudarshan S. Chawathe

June 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, index terms

We have implemented and released the XSQ system for evaluating XPath queries on streaming XML data. XSQ supports XPath features such as multiple predicates, closures, and aggregation, which pose interesting challenges for streaming evaluation. Our implementation is based on using a hierarchical arrangement of augmented finite state

automata. A design goal of XSQ is buffering data for the least amount of time possible. We present a detailed experimental study that characterizes the performance of ...

Keywords: XPath, streaming processing

124 On becoming virtual: the driving forces and arrangements



Magid Igbaria, Conrad Shayo, Lorne Olfman

April 1999 Proceedings of the 1999 ACM SIGCPR conference on Computer personnel research

Publisher: ACM Press

Full text available: pdf(1.80 MB) Additional Information: full citation, references, index terms

Keywords: telework, virtual communities, virtual organizations, virtual society, virtual teams

125 Wireless network security II: Balancing auditability and privacy in vehicular networks





Jong Youl Choi, Markus Jakobsson, Susanne Wetzel October 2005 Proceedings of the 1st ACM international workshop on Quality of service & security in wireless and mobile networks Q2SWinet '05

Publisher: ACM Press

Full text available: pdf(186.32 KB) Additional Information: full citation, abstract, references, index terms

We investigate how to obtain a balance between privacy and audit requirements in vehicular networks. Challenging the current trend of relying on asymmetric primitives within VANETs, our investigation is a feasibility study of the use of symmetric primitives, resulting in some efficiency improvements of potential value. More specifically, we develop a realistic trust model, and an architecture that supports our solution. In order to ascertain that most users will not find it meaningful to disconn ...

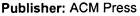
Keywords: audit, incentive, light-weight, privacy, symmetric

126 Dynamic control of performance monitoring on large scale parallel systems



Jeffrey K. Hollingsworth, Barton P. Miller

August 1993 Proceedings of the 7th international conference on Supercomputing



Full text available: pdf(1.24 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Performance monitoring of large scale parallel computers creates a dilemma: we need to collect detailed information to find performance bottlenecks, yet collecting all this data can introduce serious data collection bottlenecks. At the same time, users are being inundated with volumes of complex graphs and tables that require a performance expert to interpret. We present a new approach called the W3 Search Model, that addresses both these problems by combining dynamic o ...

127 <u>Implementing OSA model instances in Ada</u>



Susan Bodily, David W. Embley, Scott N. Woodfield

November 1994 Proceedings of the conference on TRI-Ada '94

Publisher: ACM Press

Full text available: pdf(1.26 MB)

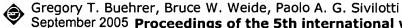
Additional Information: full citation, abstract, references, index terms

Object-oriented Systems Analysis (OSA) [EKW92] is an analysis model whose purpose is

to provide a way for analysts to capture and record real-world, system-application information. To produce software, OSA model instances must be mapped into code using some programming language. This paper shows how to map OSA model instances into production-quality Ada code. The technique uses templates that directly and efficiently support OSA concepts. We give basic templates, show how to map OSA concept ...

128 Security in middleware: Using parse tree validation to prevent SQL injection attacks





September 2005 Proceedings of the 5th international workshop on Software engineering and middleware SEM '05

Publisher: ACM Press

Full text available: pdf(369.74 KB) Additional Information: full citation, abstract, references

An SQL injection attack targets interactive web applications that employ database services. Such applications accept user input, such as form fields, and then include this input in database requests, typically SQL statements. In SQL injection, the attacker provides user input that results in a different database request than was intended by the application programmer. That is, the interpretation of the user input as part of a larger SQL statement, results in an SQL statement of a different form ...

129 Coyote: a system for constructing fine-grain configurable communication services





Nina T. Bhatti, Matti A. Hiltunen, Richard D. Schlichting, Wanda Chiu

November 1998 ACM Transactions on Computer Systems (TOCS), Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(290.21 KB) · Additional Information: full citation, abstract, references, citings, index

Communication-oriented abstractions such as atomic multicast, group RPC, and protocols for location-independent mobile computing can simplify the development of complex applications built on distributed systems. This article describes Coyote, a system that supports the construction of highly modular and configurable versions of such abstractions. Coyote extends the notion of protocol objects and hierarchical composition found in existing systems with support for finer-grain microprotocol ob ...

Keywords: x-kernal, configurable sevices, customization, event handlers, event-driven execution, membership, microprotocols, mobile computing, modularity, multicast, protocols, remote procedure call

130 Service infastructure and network management: Using code collection to support





large applications on mobile devices

Lucian Popa, Irina Athanasiu, Costin Raiciu, Raju Pandey, Radu Teodorescu September 2004 Proceedings of the 10th annual international conference on Mobile computing and networking

Publisher: ACM Press

Full text available: pdf(252.95 KB) Additional Information: full citation, abstract, references, index terms

The progress of mobile device technology unfolds a new spectrum of applications that challenges conventional infrastructure models. Most of these devices are perceived by their users as "appliances" rather than computers and accordingly the application management should be done transparently by the underlying system unlike classic applications managed explicitly by the user. Memory management on such devices should consider new types of mobile applications involving code mobility such as mobile ...

Keywords: caching, code collection, garbage collection

131 The X window system



Robert W. Scheifler, Jim Gettys

April 1986 ACM Transactions on Graphics (TOG), Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(2.76 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

An overview of the X Window System is presented, focusing on the system substrate and the low-level facilities provided to build applications and to manage the desktop. The system provides high-performance, high-level, device-independent graphics. A hierarchy of resizable, overlapping windows allows a wide variety of application and user interfaces to be built easily. Network-transparent access to the display provides an important degree of functional separation, without significantly affec ...

132 Transactional workflow paradigm: its application to mobile computing



V. K. Murthy

February 1998 Proceedings of the 1998 ACM symposium on Applied Computing

Publisher: ACM Press

Full text available: pdf(997.50 KB) Additional Information: full citation, references, citings, index terms

Keywords: agents, intention-action protocols, mobile transactions, serializability, workflow

133 On the encipherment of search trees and random access files





R. Bayer, J. K. Metzger

March 1976 ACM Transactions on Database Systems (TODS), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(1.30 MB)

Additional Information: full citation, abstract, references, citings, index

The securing of information in indexed, random access files by means of privacy transformations must be considered as a problem distinct from that for sequential files. Not only must processing overhead due to encrypting be considered, but also threats to encipherment arising from updating and the file structure itself must be countered. A general encipherment scheme is proposed for files maintained in a paged structure in secondary storage. This is applied to the encipherment of indexes or ...

Keywords: B-trees, cryptography, encipherment, indexed sequential files, indexes, paging, privacy, privacy transformation, protection, random access files, search trees, security

134 Efficient management of memory hierarchies in embedded DRAM systems



Ashley Saulsbury, Su-Jaen Huang, Fredrik Dahlgren

May 1999 Proceedings of the 13th international conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.57 MB) Additional Information: full citation, references, index terms

Keywords: COMA, DRAM, cache, latency, memory hierarchy, processor

135

Knowledge representation for commonsense reasoning with text

Kathleen Dahlgren, Joyce McDowell, Edward P. Stabler

September 1989 Computational Linguistics, Volume 15 Issue 3

Publisher: MIT Press

Full text available: pdf(2.52 MB) Additional Information: full citation, references, citings Publisher Site

136 Advanced XML technologies and applications: Honey, I shrunk the XQuery!; an XML





algebra optimization approach

Xin Zhang, Bradford Pielech, Elke A. Rundesnteiner

November 2002 Proceedings of the 4th international workshop on Web information and data management

Publisher: ACM Press

Full text available: pdf(375.44 KB). Additional Information: full citation, abstract, references, citings, index

A lot of work is being done in the database community on mapping of XML data into and out of relational database systems, specifically, the query processing over such data using XQuery. We discuss our solution, the XML Algebra Tree (XAT), as part of our larger XML management system called Rainbow.Rainbow uses XQuery to describe the loading and extracting of XML data into relational systems and also for the execution of gueries against pre-defined XML views of that stored data. The XML algebra tr ...

Keywords: XML, XQuery, algebra, operator, optimization, relational

137 A structured approach for the definition of the semantics of active databases





Piero Fraternali, Letizia Tanca

December 1995 ACM Transactions on Database Systems (TODS), Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(4.15 MB)

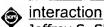
Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Active DBMSs couple database technology with rule-based programming to achieve the capability of reaction to database (and possibly external) stimuli, called events. The reactive capabilities of active databases are useful for a wide spectrum of applications, including security, view materialization, integrity checking and enforcement, or heterogeneous database integration, which makes this technology very promising for the near future. An active database system consists of ...

Keywords: active database systems, database rule processing, events, fixpoint semantics, rules, semantics

138 ECSGlasses and EyePliances: using attention to open sociable windows of





Jeffrey S. Shell, Roel Vertegaal, Daniel Cheng, Alexander W. Skaburskis, Changuk Sohn, A. James Stewart, Omar Aoudeh, Connor Dickie

March 2004 Proceedings of the Eye tracking research & applications symposium on Eye tracking research & applications

Publisher: ACM Press

Full text available: 7 pdf(14.56 MB) Additional Information: full citation, abstract, references, index terms

We present ECSGlasses: wearable eye contact sensing glasses that detect human eye contact. ECSGlasses report eye contact to digital devices, appliances and EyePliances in the user's attention space. Devices use this attentional cue to engage in a more sociable process of turn taking with users. This has the potential to reduce inappropriate intrusions, and limit their disruptiveness. We describe new prototype systems, including the Attentive Messaging Service (AMS), the Attentive Hit Coun ...

Keywords: attentive user interfaces, context-aware computing, eye contact sensing, eye tracking, ubiquitous computing

139 Large scale terrain visualization using the restricted quadtree triangulation

Renato Paiarola

October 1998 Proceedings of the conference on Visualization '98

Publisher: IEEE Computer Society Press

Full text available: pdf(2.11 MB) Additional Information: full citation, references, citings, index terms

Keywords: algorithms, computer graphics, terascale visualization, terrain visualization, triangulated surfaces, virtual reality

140 A general framework for prefetch scheduling in linked data structures and its



application to multi-chain prefetching

Seungryul Choi, Nicholas Kohout, Sumit Pamnani, Dongkeun Kim, Donald Yeung May 2004 ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(2.45 MB)

Additional Information: full citation, abstract, references, index terms

Pointer-chasing applications tend to traverse composite data structures consisting of multiple independent pointer chains. While the traversal of any single pointer chain leads to the serialization of memory operations, the traversal of independent pointer chains provides a source of memory parallelism. This article investigates exploiting such interchain memory parallelism for the purpose of memory latency tolerance, using a technique called multi--chain prefetching. Previous work ...

Keywords: Data prefetching, memory parallelism, pointer-chasing code

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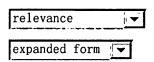
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Relevance scale 🗆 🖃 📟 📟

141 SOS: secure overlay services



Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

window

August 2002 ACM SIGCOMM Computer Communication Review, Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02, Volume 32 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(210.90 KB)

Denial of service (DoS) attacks continue to threaten the reliability of networking systems. Previous approaches for protecting networks from DoS attacks are reactive in that they wait for an attack to be launched before taking appropriate measures to protect the network. This leaves the door open for other attacks that use more sophisticated methods to mask their traffic. We propose an architecture called Secure Overlay Services (SOS) that proactively prevents DoS attacks, geared toward supportin ...

Keywords: denial of service attacks, network security, overlay networks

142 Characterizing a national community web

Daniel Gomes, Mário J. Silva

August 2005 ACM Transactions on Internet Technology (TOIT), Volume 5 Issue 3

Publisher: ACM Press

Full text available: Top pdf(364.77 KB) Additional Information: full citation, abstract, references, index terms

This article presents a characterization of the community Web of the people of Portugal. We defined criteria for delimiting this Web based on our past experience of crawling pages related to Portugal and collected over 3.2 million documents from 46,000 sites satisfying those criteria. Our characterization was derived from this crawl. We describe the rules that we established for defining the boundaries of this community Web and the methodology used to gather statistics. Statistics cover the numb ...

Keywords: Portuguese Web, Web characterization, Web communities, Web measurements

143 Lowering the barriers to programming: A taxonomy of programming environments



and languages for novice programmers

Caitlin Kelleher, Randy Pausch

June 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 2

Publisher: ACM Press

Full text available: 🔁 pdf(14.21 MB) Additional Information: full citation, abstract, references, index terms

Since the early 1960's, researchers have built a number of programming languages and environments with the intention of making programming accessible to a larger number of people. This article presents a taxonomy of languages and environments designed to make programming more accessible to novice programmers of all ages. The systems are organized by their primary goal, either to teach programming or to use programming to empower their users, and then, by each system's authors' approach, to makin ...

Keywords: Human-computer interaction, computer Science education, learning, literacy, problem solving

144 Vex—A CAD toolbox



Jules P. Bergmann, Mark A. Horowitz

June 1999 Proceedings of the 36th ACM/IEEE conference on Design automation

Publisher: ACM Press

Full text available: pdf(65.80 KB) Additional Information: full citation, references, citings, index terms

145 Service applications: An OGSA-based accounting system for allocation enforcement





across HPC centers

Thomas Sandholm, Peter Gardfjäll, Erik Elmroth, Lennart Johnsson, Olle Mulmo November 2004 Proceedings of the 2nd international conference on Service oriented computing

Publisher: ACM Press

Full text available: pdf(519.13 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present an Open Grid Services Architecture (OGSA)-based decentralized allocation enforcement system, developed with an emphasis on a consistent data model and easy integration into existing scheduling, and workload management software at six independent high-performance computing centers forming a Grid known as SweGrid. The Swedish National Allocations Committee (SNAC) allocates resource quotas at these centers to research projects requiring substantial computer time. Our sy ...

Keywords: HPC, OGSA, grid accounting, grid computing, security policy management, web services

146 A framework for providing consistent and recoverable agent-based access to



heterogeneous mobile databases Evaggelia Pitoura, Bharat Bhargava

September 1995 ACM SIGMOD Record, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(728.00 KB) Additional Information: full citation, abstract, citings, index terms

Information applications are increasingly required to be distributed among numerous remote sites through both wireless and wired links. Traditional models of distributed computing are inadequate to overcome the communication barrier this generates and to support the development of complex applications. In this paper, we advocate an approach based on agents. Agents are software modules that encapsulate data and code, cooperate to solve complicated tasks, and run at remote sites with minimum inter ...

Keywords: agents, concurrency control, mobile computing, multidatabases, recovery, transactions, workflow

147 Software/modelware tutorials a: Promodel: simulation modeling using promodel technology

Charles R. Harrell, Rochelle N. Price

December 2002 Proceedings of the 34th conference on Winter simulation: exploring new frontiers ·

Publisher: Winter Simulation Conference

Full text available: Dodf(255.82 KB) Additional Information: full citation, abstract

PROMODEL's simulation modeling products are powerful yet easy-to-use simulation tools for modeling all types of systems and processes. ProModel[@] is designed to model manufacturing systems ranging from small job shops and machining cells to large mass production, flexible manufacturing systems, and supply chain systems. Other simulation products available from PROMODEL Corporation include MedModel[®], ServiceModel[®], Innovate□ ...

148 Software/modelware tutorials: ProModel/MedModel: simulation modeling and optimization using ProModel technology



Charles R. Harrell, Kevin C. Field

December 2001 Proceedings of the 33nd conference on Winter simulation

Publisher: IEEE Computer Society

Full text available: 📆 pdf(339.92 KB) Additional Information: full citation, abstract, citings, index terms

The ProModel Optimization Suite is a powerful yet easy-to-use simulation tool for modeling all types of manufacturing systems ranging from small job shops and machining cells to large mass production, flexible manufacturing systems, and supply chain systems. ProModel is a Windows based application with an intuitive graphical interface and objectoriented modeling constructs that eliminate the need for programming. It combines the flexibility of a general-purpose simulation language with the conv ...

149 Software/modelware tutorials a: Simulation modeling using promodel technology: simulation modeling using promodel technology



Charles R. Harrell, Rochelle N. Price

December 2003 Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available: pdf(422.00 KB) Additional Information: full citation, abstract

PROMODEL's simulation modeling products are powerful yet easy-to-use simulation tools for modeling all types of systems and processes. ProModel® is designed to model manufacturing systems ranging from small job shops and machining cells to large mass production, flexible manufacturing systems, and supply chain systems. Other simulation products available from PROMODEL Corporation include MedModel®, ServiceModel®, and our latest release, ProModel PI (for process improvement). These ...

150 Summary of ACM/ONR workshop on parallel and distributed debugging



Publisher: ACM Press

Additional Information: full citation, index terms Full text available: pdf(1.34 MB)

151 Simulation modeling and optimization using ProModel

Deborah L. Heflin, Charles R. Harrell

December 1998 Proceedings of the 30th conference on Winter simulation

Publisher: IEEE Computer Society Press

Full text available: pdf(313.91 KB) Additional Information: full citation, references, citings, index terms

152 Capturing summarizability with integrity constraints in OLAP

Carlos A. Hurtado, Claudio Gutierrez, Alberto O. Mendelzon

September 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 3

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, index terms

In multidimensional data models intended for online analytic processing (OLAP), data are viewed as points in a multidimensional space. Each dimension has structure, described by a directed graph of categories, a set of members for each category, and a child/parent relation between members. An important application of this structure is to use it to infer summarizability, that is, whether an aggregate view defined for some category can be correctly derived from a set of precomputed views defined f ...

Keywords: OLAP, data warehousing, integrity constraints, query-optimization, summarizability

153 Scheduling: Model-based run-time monitoring of end-to-end deadlines

Jaswinder Ahluwalia, Ingolf H. Krüger, Walter Phillips, Michael Meisinger September 2005 Proceedings of the 5th ACM international conference on Embedded

software EMSOFT '05 Publisher: ACM Press

Full text available: pdf(272.87 KB) Additional Information: full citation, abstract, references, index terms

The correct interplay among components in a distributed, reactive system is a crucial development task, particularly for embedded systems such as those in the automotive domain. Model-based development is a promising means for capturing key structural and behavioral requirements before implementing code. Current development approaches focus on components as the central development entity, leaving component integration as a separate and error-prone task in later stages of the system develo ...

Keywords: RT CORBA, code generation, components, quality of service, runtime monitoring, service engineering, services

154 The design and implementation of a private message service for mobile computers

David A. Cooper, Kenneth P. Birman

August 1995 Wireless Networks, Volume 1 Issue 3

Publisher: Kluwer Academic Publishers

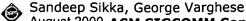
Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references

Even as wireless networks create the potential for access to information from mobile platforms, they pose a problem for privacy. In order to retrieve messages, users must periodically poll the network. The information that the user must give to the network could potentially be used to track that user. However, the movements of the user can also be used to hide the user's location if the protocols for sending and retrieving messages are carefully designed. We have developed a replicated memo ...





155 Memory-efficient state lookups with fast updates



August 2000 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication SIGCOMM '00, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(384.82 KB)

Additional Information: full citation, abstract, references, citings, index terms

Routers must do a best matching prefix lookup for every packet; solutions for Gigabit speeds are well known. As Internet link speeds higher, we seek a scalable solution whose speed scales with memory speeds while allowing large prefix databases. In this paper we show that providing such a solution requires careful attention to memory allocation and pipelining. This is because fast lookups require on-chip or off-chip SRAM which is limited by either expense ...

156 Page replacement using marginal loss functions

Manuel Ujaldon, Shamik D. Sharma, Joel Saltz

November 1997 Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM Press

Full text available: pdf(112.09 KB) Additional Information: full citation, abstract, references

This paper describes a new technique to reduce page-faults in multiprocessing systems by supplying compile-time information about application's access patterns to the kernel. Runtime support is used to determine parameters unknown at compile-time and to summarize all this information as a **marginal-loss** function. Marginal loss functions describe the extra number of page faults that a process incurs when one of its pages is removed from main memory. System calls convey the marginal loss fun ...

157 Simulation modeling and optimization using ProModel

Deborah Benson

December 1997 Proceedings of the 29th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(764.57 KB) Additional Information: full citation, references, index terms

158 Simulation modeling and optimization using ProModel

Rochelle N. Price, Charles R. Harrell

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1

Publisher: ACM Press

Full text available: pdf(194.45 KB) Additional Information: full citation, references, citings, index terms

159 Towards a taxonomy of software connectors

Nikunj R. Mehta, Nenad Medvidovic, Sandeep Phadke

June 2000 Proceedings of the 22nd international conference on Software engineering

Publisher: ACM Press

Full text available: pdf(184.27 KB)

Additional Information: full citation, abstract, references, citings, index terms

Software systems of today are frequently composed from prefabricated, heterogeneous

components that provide complex functionality and engage in complex interactions. Existing research on component-based development has mostly focused on component structure, interfaces, and functionality. Recently, software architecture has emerged as an area that also places significant importance on component interactions, embodied in the notion of software connectors. However, the current level of underst ...

Keywords: classification, software architecture, software connector, taxonomy

160 Software/modelware tutorials I: Simulation modeling and optimization using ProModel

Charles R. Harrell, Rochelle N. Price

December 2000 Proceedings of the 32nd conference on Winter simulation

Publisher: Society for Computer Simulation International

Full text available: pdf(240.71 KB) Additional Information: full citation, abstract, citings

The ProModel Optimization Suite is a powerful yet easy-to-use simulation tool for modeling all types of manufacturing systems ranging from small job shops and machining cells to large mass production, flexible manufacturing systems, and supply chain systems. ProModel is a Windows based application with an intuitive graphical interface and objectoriented modeling constructs that eliminate the need for programming. It combines the flexibility of a general-purpose simulation language with the conv ...

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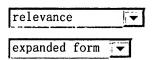
Feedback Report a problem Satisfaction survey

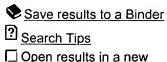
Terms used

Found 251 of 171,143

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Relevance scale

161 Efficient memory management in a merged heap/stack prolog machine

window

Xining Li

September 2000 Proceedings of the 2nd ACM SIGPLAN international conference on Principles and practice of declarative programming

Publisher: ACM Press

Full text available: pdf(553.36 KB) Additional Information: full citation, references, index terms

162 Static analysis techniques for predicting the behavior of active database rules Alexander Aiken, Joseph M. Hellerstein, Jennifer Widom



March 1995 ACM Transactions on Database Systems (TODS), Volume 20 Issue 1

Publisher: ACM Press

Full text available: pdf(2.79 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This article gives methods for statically analyzing sets of active database rules to determine if the rules are (1) guaranteed to terminate, (2) guaranteed to produce a unique final database state, and (3) guaranteed to produce a unique stream of observable actions. If the analysis determines that one of these properties is not quaranteed, it isolates the rules responsible for the problem and determines criteria that, if satisfied, guarantee the property. The analysis methods are presented ...

Keywords: active database systems, confluence, database rule processing, static analysis, termination

163 Sensor networks: Lightweight sensing and communication protocols for target



enumeration and aggregation

Qing Fang, Feng Zhao, Leonidas Guibas

June 2003 Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing

Publisher: ACM Press

Full text available: pdf(331.14 KB)

Additional Information: full citation, abstract, references, citings, index

The development of lightweight sensing and communication protocols is a key requirement

for designing resource constrained sensor networks. This paper introduces a set of efficient protocols and algorithms, DAM, EBAM, and EMLAM, for constructing and maintaining sensor aggregates that collectively monitor target activity in the environment. A sensor aggregate comprises those nodes in a network that satisfy a grouping predicate for a collaborative processing task. The parameters of the predicate de ...

Keywords: applications for ad hoc networks, distributed algorithms for ad hoc networks, processing and fusion of data in sensor networks, self-configuration in ad hoc networks

164 Extending temporal logic to support high-level simulations

③

Alexander Tuzhilin

April 1995 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, index terms

A high-level simulation language based on temporal logic is described. The language combines a large set of temporal tenses and a rich class of high-level modeling primitives. Also an implementation of the language interpreter is presented. Finally, a real-world case study is described that shows how a programmer can develop structured, reliable, and well-maintainable simulation programs using the language.

Keywords: discrete event simulations, knowledge-based simulations, rule-processing, temporal logic, time

165 Templar: a knowledge-based language for software specifications using temporal





<u>logic</u>

Alexander Tuzhilin

July 1995 ACM Transactions on Information Systems (TOIS), Volume 13 Issue 3

Publisher: ACM Press

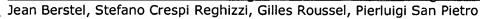
Full text available: pdf(2.54 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

A software specification language Templar is defined in this article. The development of the language was guided by the following objectives: requirements specifications written in Templar should have a clear syntax and formal semantics, should be easy for a systems analyst to develop and for an end-user to understand, and it should be easy to map them into a broad range of design specifications. Templar is based on temporal logic and on the Activity-Event-Condition-Activity model of a rule ...

Keywords: activities, events, rule-based systems, specification languages, temporal logic, time

166 A scalable formal method for design and automatic checking of user interfaces



April 2005 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(1.74 MB) Additional Information: full citation, abstract, references, index terms

The article addresses the formal specification, design and implementation of the behavioral component of graphical user interfaces. The complex sequences of visual events and actions that constitute dialogs are specified by means of modular,

communicating grammars called VEG (Visual Event Grammars), which extend traditional BNF grammars to make them more convenient to model dialogs. A VEG specification is independent of the actual layout of the GUI, but it can easily be integrated with various la ...

Keywords: GUI design, Human-computer interaction (HCI), applications of model checking

167 Access control for XML document: Relevancy based access control of versioned



XML documents

Mizuho Iwaihara, Somchai Chatvichienchai, Chutiporn Anutariya, Vilas Wuwongse June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

Publisher: ACM Press

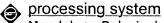
Full text available: pdf(219.95 KB) Additional Information: full citation, abstract, references, index terms

Integration of version and access control of XML documents has the benefit of regulating access to rapidly growing archives of XML documents. Versioned XML documents provide us with valuable informations on dependencies between document nodes, but at the same time presenting the risk of undesirable data disclosure. In this paper we introduce the notion of relevancy-based access control, which realizes protection of versioned XML documents by various types of relevancy, such as version dependenci ...

Keywords: XML, XPath, access control, query language, security, version control

168 Research papers: streams: Fault-tolerance in the Borealis distributed stream





Magdalena Balazinska, Hari Balakrishnan, Samuel Madden, Michael Stonebraker June 2005 Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(612.50 KB) Additional Information: full citation, abstract, references

We present a replication-based approach to fault-tolerant distributed stream processing in the face of node failures, network failures, and network partitions. Our approach aims to reduce the degree of inconsistency in the system while guaranteeing that available inputs capable of being processed are processed within a specified time threshold. This threshold allows a user to trade availability for consistency: a larger time threshold decreases availability but limits inconsistency, while a smal ...

169 Achieving scalability and expressiveness in an Internet-scale event notification



<u>service</u>

Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf

July 2000 Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing

Publisher: ACM Press

Full text available: pdf(937.62 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design of SIENA, an Internet-scale event notification middleware service for distributed event-based applications deployed over wide-area networks. SIENA is responsible for selecting the notifications that are of interest to clients (as expressed in client subscriptions) and then delivering those notifications to the clients via access points. The key design challenge for SIENA is m ...

170 Simulation modeling and optimization using ProModel

Deborah Benson

Deboran Benson
November 1996 Proceedings of the 28th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(612.18 KB) Additional Information: full citation, references, citings

171 Report on the Workshop on Quality of Service Issues in High Speed Networks

S. Keshav

October 1992 ACM SIGCOMM Computer Communication Review, Volume 22 Issue 5

Publisher: ACM Press

Additional Information: full citation, index terms Full text available: pdf(1.28 MB)

172 Recency-based TLB preloading

Ashley Saulsbury, Fredrik Dahlgren, Per Stenström

May 2000 ACM SIGARCH Computer Architecture News, Proceedings of the 27th annual international symposium on Computer architecture ISCA '00, Volume 28 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(651.05 KB)

Caching and other latency tolerating techniques have been quite successful in maintaining high memory system performance for general purpose processors. However, TLB misses have become a serious bottleneck as working sets are growing beyond the capacity of TLBs. This work presents one of the first attempts to hide TLB miss latency by using preloading techniques. We present results for traditional next-page TLB miss preloading an approach shown to cut so ...

173 Simulation of manufacturing systems

Averill M. Law, Michael G. McComas

AVERTIFM. Law, Pricings G. McComas

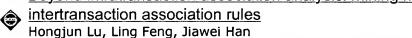
December 1987 Proceedings of the 19th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, index terms

This paper discusses how simulation is used to design and analyze manufacturing or warehousing systems. Topics discussed include: manufacturing issues investigated by simulation, techniques for building valid and credible models, manufacturing simulation software, statistical considerations, and simulation pitfalls. A case study is included.

174 Beyond intratransaction association analysis: mining multidimensional



October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.31 MB) terms

In this paper, we extend the scope of mining association rules from traditional singledimensional intratransaction associations, to multidimensional intertransaction associations. Intratransaction associations are the associations among items with the same transaction, where the notion of the transaction could be the items bought by the same customer, the events happened on the same day, and so on. However, an intertransaction association ...

Keywords: association rules, data mining, intra/intertransaction, multidimensional context

175 TINA: a natural language system for spoken language applications

Stephanie Seneff

March 1992 Computational Linguistics, Volume 18 Issue 1

Publisher: MIT Press

Full text available: pdf(1.86 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

A new natural language system, TINA, has been developed for applications involving spoken language tasks. TINA integrates key ideas from context free grammars, Augmented Transition Networks (ATN's), and the unification concept. TINA provides a seamless interface between syntactic and semantic analysis, and also produces a highly constraining probabilistic language model to improve recognition performance. An initial set of context-free rewrite rules provided by hand is first ...

176 A model of organizational communications

Mary R. Lind

March 1987 ACM SIGMIS Database, Volume 18 Issue 3

Publisher: ACM Press

Full text available: pdf(818.41 KB) Additional Information: full citation, abstract, index terms

The study of organizational communications has proceeded without a widely accepted model. In this paper a framework of analysis for organizational communication is presented. It is based on the OSI model of data communication which was developed as a standard model to guide data communications systems development. The OSI model is composed of seven layers that each have responsibility for various aspects of data communications. Using this model as a guide, comparisons are made to an organization ...

177 Atomicity and isolation for transactional processes

Heiko Schuldt, Gustavo Alonso, Catriel Beeri, Hans-Jörg Schek

March 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 1

Publisher: ACM Press

Full text available: pdf(1.22 MB)

Additional Information: full citation, abstract, references, citings, index

terms

Processes are increasingly being used to make complex application logic explicit. Programming using processes has significant advantages but it poses a difficult problem from the system point of view in that the interactions between processes cannot be controlled using conventional techniques. In terms of recovery, the steps of a process are different from operations within a transaction. Each one has its own termination semantics and there are dependencies among the different steps. Regarding c ...

Keywords: Advanced transaction models, business process management, electronic commerce, execution guarantees, locking, rocesses, semantically rich transactions, transactional workflows, unified theory of concurrency control and recovery

178 Flexible access control policy specification with constraint logic programming

Steve Barker, Peter J. Stuckev

November 2003 ACM Transactions on Information and System Security (TISSEC), Volume 6 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(421.66 KB) terms

We show how a range of role-based access control (RBAC) models may be usefully represented as constraint logic programs, executable logical specifications. The RBAC models that we define extend the "standard" RBAC models that are described by Sandhu et al., and enable security administrators to define a range of access policies that may include features, like denials of access and temporal authorizations, that are often useful in practice, but which are not widely supported in existing access co ...

Keywords: Role-based access control, constraint logic programming

179 Research sessions: consistency and availability: Relaxed currency and consistency:



how to say "good enough" in SQL

Hongfei Guo, Per-Åke Larson, Raghu Ramakrishnan, Jonathan Goldstein

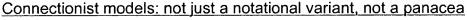
June 2004 Proceedings of the 2004 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: 7 pdf(606.81 KB) Additional Information: full citation, abstract, references, citings

Despite the widespread and growing use of asynchronous copies to improve scalability, performance and availability, this practice still lacks a firm semantic foundation. Applications are written with some understanding of which queries can use data that is not entirely current and which copies are "good enough"; however, there are neither explicit requirements nor guarantees. We propose to make this knowledge available to the DBMS through explicit currency and consistency (C&C) constraints in qu ...

180 Connectionist and other parallel approaches to natural language processing:



David L. Waltz

January 1987 Proceedings of the 1987 workshop on Theoretical issues in natural language processing

Publisher: Association for Computational Linguistics

Full text available: pdf(519.91 KB)

Additional Information: full citation, abstract, references

Connectionist models inherently include features and exhibit behaviors which are difficult to achieve with traditional logic-based models. Among the more important of such characteristics are 1) the ability to compute nearest match rather than requiring unification or exact match; 2) learning; 3) fault tolerance through the integration of overlapping modules, each of which may be incomplete or fallible, and 4) the possibility of scaling up such systems by many orders of magnitude, to operate mor ...

Results 161 - 180 of 200 Result page: <u>previous</u> <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> **9** <u>10</u> next

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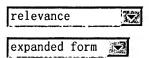
Feedback Report a problem Satisfaction survey

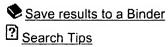
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Relevance scale

181 Learning by doing with simulated intelligent help



John Carroll, Amy Aaronson

August 1988 Communications of the ACM, Volume 31 Issue 9

Publisher: ACM Press

Full text available: pdf(5.00 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Intelligent advisory interfaces will afford new approaches to help and training problems, however little is known about the usability of such facilities. This recent study indicates that although intelligent help can support users, there are also specific potential problems.

182 Modelling business rules in an office environment



P. Loucopoulos, E. Katsouli

August 1992 ACM SIGOIS Bulletin, Volume 13 Issue 2

Publisher: ACM Press

Full text available: pdf(874.38 KB) Additional Information: full citation, abstract, citings, index terms

Current approaches in the field of information systems methodologies deal primarily with the capture and specification of models which are concerned with the target computer-based system but often fail to adequately capture and explicitly specify the (organisational) business concepts, objects, rules, constraints and - generally - the corporate knowledge upon which any development of a new information system or the evolution of an existing one, must be based. This paper advocates an approach whic ...

183 Software evolution through iterative prototyping



Neil Goldman, K. Narayanaswamy

June 1992 Proceedings of the 14th international conference on Software engineering

Publisher: ACM Press

Full text available: pdf(1.55 MB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

184 Focusing for interpretation of pronouns

Candace L. Sidner

October 1981 Computational Linguistics, Volume 7 Issue 4

Publisher: MIT Press

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

Recent studies in both artificial intelligence and linguistics have demonstrated the need for a theory of the comprehension of anaphoric expressions, a theory that accounts for the role of syntactic and semantic effects, as well as inferential knowledge in explaining how anaphors are understood. In this paper a new approach, based on a theory of the process of focusing on parts of the discourse, is used to explain the interpretation of anaphors. The concept of a speaker's foci is defined, and th ...

185 Women and computing

Karen A. Frenkel

November 1990 Communications of the ACM, Volume 33 Issue 11

Publisher: ACM Press

Full text available: pdf(11.18 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

There is mounting evidence that many women opting for careers in computing either drop out of the academic pipeline or choose not to get advanced degrees and enter industry instead. Consequently, there are disproportionately low numbers of women in academic computer science and the computer industry. The situation may be perpetuated for several generations since studies show that girls from grade school to high school are losing interest in computing. Statistics, descriptions offe ...

186 Enhanced operational semantics: a tool for describing and analyzing concurrent

systems

Pierpaolo Degano, Corrado Priami

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(355.24 KB)

Additional Information: full citation, abstract, references, citings, index terms

This article surveys the definition and application of an enhancement of structural operational semantics in the field of concurrent systems, and also addresses issues of distribution and mobility of code. The focus is on how enriching the labels of transitions with encodings of their deduction trees is sufficient to derive qualitative and quantitative information on the systems in hand simply by relabeling the transitions of a unique concrete model.

Keywords: parametric models, process algebra

187 The weakest failure detector for solving consensus

Tushar Deepak Chandra, Vassos Hadzilacos, Sam Toueg
July 1996 Journal of the ACM (JACM), Volume 43 Issue 4

Publisher: ACM Press

Full text available: pdf(770.03 KB) Additional Information: full citation, abstract, references, citings, index terms

We determine what information about failures is necessary and sufficient to solve Consensus in asynchronous distributed systems subject to crash failures. In Chandra and Toueg [1996], it is shown that W, a failure detector that provides surprisingly little information about which processes have crashed, is sufficient to solve Consensus in asynchronous systems with a majority of correct processes. In this paper, we prove that to solve Consensus, any failure detector has to p ...

Keywords: Byzantine Generals' problem, agreement problem, asynchronous systems, atomic broadcast, commit problem, consensus problem, crash failures, failure detection, fault-tolerance, message passing, partial synchrony, processor failures

188 Object database support for a software project management environment



Lung-Chun Liu, Ellis Horowitz

November 1988 ACM SIGSOFT Software Engineering Notes, ACM SIGPLAN Notices, Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments SDE 3, Volume 13, 24 Issue 5, 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(1.39 MB)

The recent development of object-oriented database models, which combine the power of object programming and the efficient management of data, provides a feasible solution for the construction of a computer-aided software engineering environment or CASE. However, an object oriented database provides only a kernel set of capabilities. This paper identifies the data management requirements related to software project management and shows how they are represented in the model called Design-Net ...

189 Monitoring distributed systems



Jeffrey Joyce, Greg Lomow, Konrad Slind, Brian Unger

March 1987 ACM Transactions on Computer Systems (TOCS), Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(2.37 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

The monitoring of distributed systems involves the collection, interpretation, and display of information concerning the interactions among concurrently executing processes. This information and its display can support the debugging, testing, performance evaluation, and dynamic documentation of distributed systems. General problems associated with monitoring are outlined in this paper, and the architecture of a general purpose, extensible, distributed monitoring system is presented. Three a ...

190 The use of program profiling for software maintenance with applications to the year 2000 problem





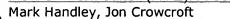
Thomas Reps, Thomas Ball, Manuvir Das, James Larus

November 1997 ACM SIGSOFT Software Engineering Notes, Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering ESEC '97/FSE-5, Volume 22 Issue 6

Publisher: Springer-Verlag New York, Inc., ACM Press

Full text available: pdf(1.85 MB) Additional Information: full citation, references, citings, index terms

191 Network text editor (NTE): A scalable shared text editor for the MBone



October 1997 ACM SIGCOMM Computer Communication Review, Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM

'97, Volume 27 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.69 MB) terms

IP Multicast, Lightweight Sessions and Application Level Framing provide guidelines by which multimedia conferencing tools can be designed, but they do not provide specific solutions. In this paper, we use these design principles to guide the design of a multicast based shared editor, and examine the consequences of taking a loose consistency approach to achieve good performance in the face of network failures and losses.

192 Monitoring the connectivity of a grid

Sergio Andreozzi, Augusto Ciuffoletti, Antonia Ghiselli

October 2004 Proceedings of the 2nd workshop on Middleware for grid computing Publisher: ACM Press

Full text available: pdf(154.66 KB) Additional Information: full citation, abstract, references, index terms

Grid computing is a new paradigm that enables the distributed coordination of resources and services which are geographically dispersed, span multiple trust domains and are heterogeneous. Network infrastructure monitoring, while vital for activities such as service selection, exhibits inherent scalability problems: in principle, in a Grid composed of <i>n</i> resources, we need to keep record of <i>n</i> csup>2</sup> end-to-end paths. We introduce an approach to network ...

Keywords: grid information service, grid monitoring architecture, network monitoring, network service, theodolite service

193 Abstract interaction tools: a language for user interface management systems

🚵 Jan Van Den Bos

April 1988 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(2.45 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A language model is presented for the specification of User Interface Management Systems. The model, called the Abstract Interaction Tool (AIT) model, offers a tree-like hierarchy of interaction objects. Each object represents a subtree and can be considered as an abstract input device containing a syntax-like specification of the required input pattern. The hierarchy of specifications amounts to a system of syntactical productions with multiple control. Terminal nodes of the AIT tree repre ...

194 Modeling software design diversity: a review

Bev Littlewood, Peter Popov, Lorenzo Strigini

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(259.57 KB)

Additional Information: full citation, abstract, references, citings, index terms

Design diversity has been used for many years now as a means of achieving a degree of fault tolerance in software-based systems. While there is clear evidence that the approach can be expected to deliver some increase in reliability compared to a single version, there is no agreement about the extent of this. More importantly, it remains difficult to evaluate exactly how reliable a particular diverse fault-tolerant system is. This difficulty arises because assumptions of independence of fai ...

Keywords: *N*-version software, control systems, functional diversity, multiple version programming, protection systems, safety, software fault tolerance

195 Perspectives on simulation using GPSS

Thomas J. Schriber

December 1988 Proceedings of the 20th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, index terms

A broad overview of the simulation modeling language GPSS is given. The class of problems to which GPSS applies especially well is described, and commentary on the semantics and syntax of the language is offered. Various GPSS implementations are indicated, and vendor information is given. The GPSS learning-oriented literature is reviewed, and sources comparing GPSS and other simulation languages are cited. Professional GPSS courses are listed. A GPSS model and its output are presented and d ...

196 Functional declarative language design and predicate calculus: a practical approach



Raymond Boute

September 2005 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 27 Issue 5

Publisher: ACM Press

Full text available: pdf(430.46 KB) Additional Information: full citation, abstract, references, index terms

In programming language and software engineering, the main mathematical tool is de facto some form of predicate logic. Yet, as elsewhere in applied mathematics, it is used mostly far below its potential, due to its traditional formulation as just a topic in logic instead of a calculus for everyday practical use. The proposed alternative combines a language of utmost simplicity (four constructs only) that is devoid of the defects of common mathematical conventions, with a set of convenient ...

Keywords: Analysis, Leibniz's principle, binary algebra, calculational reasoning, databases, declarative languages, elastic operators, function equality, functional predicate calculus, generic functionals, limits, program semantics, programming languages, quantifiers, recursion, software engineering, summation

197 Succeedings of the 8th international workshop on software specification and design





Jeff Kramer, Alexander L. Wolf

September 1996 ACM SIGSOFT Software Engineering Notes, Volume 21 Issue 5

Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, index terms

The 8th International Workshop on Software Specification and Design (IWSSD-8) was held at Schloss Velen, Germany, in March 1996. In order to foster informed and fruitful discussions, the workshop was an invitation-only event of limited size. Based on formal submissions, approximately 60 people were selected and invited. Like its predecessors, IWSSD-8 maintained the principle that the accepted papers should serve as background material for the workshop. Therefore, the workshop did not include for ...

198 Expressing rhetorical relations in instructional text: a case study of the purpose relation



Keith Vander Linden, James H. Martin

Publisher Site

March 1995 Computational Linguistics, Volume 21 Issue 1

Publisher: MIT Press

Full text available: pdf(2.12 MB) Additional Information: full citation, abstract, references, citings

Natural language provides an extensive set of lexical and grammatical forms for expressing concepts, a set from which writers choose the particular form that they feel will produce the most effective expression given the communicative context. An important task of the text generation researcher is to specify both the range of these forms and the contexts in which they are used. This paper addresses this issue in the context of the expression of procedural relations between actions in instruction ...

199 Anonymous collaboration: an alternative technique for working together



Andrew Lee

July 1994 ACM SIGCHI Bulletin, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(611.85 KB) Additional Information: full citation, abstract, index terms

This paper describes an alternative technique for groups to work together, based on anonymity. This is viewed as an alternative to the common direct interaction approach where group members interact with one another at a personal level. Human interaction problems such as over or lack of participation, narrow-mindedness, and personal biases are unavoidable when people work together directly. These problems are the reactions of people when they face others with differences to themselves. It is bel ...

200 Engineering an "open" client/server-platform for a distributed Austrian alpine roadpricing system in 240 days: case study and experience report



Stefan Biffl, Thomas Grechenig, Stephan Oberpfalzer

May 1996 Proceedings of the 18th international conference on Software engineering

Publisher: IEEE Computer Society

Publisher Site

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, index terms

The paper describes engineering a system for a distributed Austrian Alpine road-pricing environment as well as the structure and organization of the software development. The client/server-based road-pricing system, handling on average 1.2 million vehicle transitions per month, had be to operational within a mere eight months after the start of the project. Current practical and industrial problems of client/server system strategies are discussed. Our main theses derived from the presented case ...

Keywords: client/server software development, production-oriented systems development, road-pricing system

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